

Kenji Watanabe

List of Publications by Year in descending order

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142
papers

5,732
citations

66234

42
h-index

98622

67
g-index

153
all docs

153
docs citations

153
times ranked

4791
citing authors

#	ARTICLE	IF	CITATIONS
1	Association of <i>Escherichia coli</i> containing polyketide synthase in the gut microbiota with colorectal neoplasia in Japan. <i>Cancer Science</i> , 2022, 113, 277-286.	1.7	13
2	Induction of DNA Damage in Mouse Colorectum by Administration of Colibactin-producing <i>Escherichia coli</i> , Isolated from a Patient With Colorectal Cancer. <i>In Vivo</i> , 2022, 36, 628-634.	0.6	0
3	1,2,3-Triazine formation mechanism of the fairy chemical 2-azahypoxanthine in the fairy ring-forming fungus <i>Lepista sordida</i> . <i>Organic and Biomolecular Chemistry</i> , 2022, 20, 2636-2642.	1.5	6
4	Alkaloid Biosynthetic Enzyme Generates Diastereomeric Pair <i>via</i> Two Distinct Mechanisms. <i>Journal of the American Chemical Society</i> , 2022, 144, 5485-5493.	6.6	6
5	Isolation of Natural Prodrug-Like Metabolite by Simulating Human Prodrug Activation in Filamentous Fungus. <i>Chemical and Pharmaceutical Bulletin</i> , 2022, 70, 304-308.	0.6	0
6	Toward Engineered Biosynthesis of Drugs in Human Cells. <i>ChemBioChem</i> , 2022, 23, .	1.3	3
7	Recent advances in the chemo-biological characterization of decalin natural products and unraveling of the workings of Diels-Alderase. <i>Fungal Biology and Biotechnology</i> , 2022, 9, 9.	2.5	8
8	Advancing the Biosynthetic and Chemical Understanding of the Carcinogenic Risk Factor Colibactin and Its Producers. <i>Biochemistry</i> , 2022, 61, 2782-2790.	1.2	3
9	Specialized Flavoprotein Promotes Sulfur Migration and Spiroaminal Formation in Aspirochlorine Biosynthesis. <i>Journal of the American Chemical Society</i> , 2021, 143, 206-213.	6.6	20
10	<i>o</i> -Anisidine Dimer, 2-Methoxy- <i>N</i> ⁴ -(2-methoxyphenyl) Benzene-1,4-diamine, in Rat Urine Associated with Urinary bladder Carcinogenesis. <i>Chemical Research in Toxicology</i> , 2021, 34, 912-919.	1.7	5
11	Discovery and investigation of natural Diels-Alderase. <i>Journal of Natural Medicines</i> , 2021, 75, 434-447.	1.1	4
12	Catalytic mechanism and endo-to-exo selectivity reversion of an octalin-forming natural Diels-Alderase. <i>Nature Catalysis</i> , 2021, 4, 223-232.	16.1	35
13	Isolation of New Colibactin Metabolites from Wild-Type <i>Escherichia coli</i> and In Situ Trapping of a Mature Colibactin Derivative. <i>Journal of the American Chemical Society</i> , 2021, 143, 5526-5533.	6.6	13
14	AoiQ Catalyzes Geminal Dichlorination of 1,3-Diketone Natural Products. <i>Journal of the American Chemical Society</i> , 2021, 143, 7267-7271.	6.6	16
15	Stool pattern is associated with not only the prevalence of tumorigenic bacteria isolated from fecal matter but also plasma and fecal fatty acids in healthy Japanese adults. <i>BMC Microbiology</i> , 2021, 21, 196.	1.3	4
16	Mother-to-infant transmission of the carcinogenic colibactin-producing bacteria. <i>BMC Microbiology</i> , 2021, 21, 235.	1.3	16
17	Biosynthesis of the Immunosuppressant (â [~])-FR901483. <i>Journal of the American Chemical Society</i> , 2021, 143, 132-136.	6.6	10
18	Bisindole. , 2020, , 467-485.		1

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19	Association between dietary intake and the prevalence of tumourigenic bacteria in the gut microbiota of middle-aged Japanese adults. <i>Scientific Reports</i> , 2020, 10, 15221.	1.6	24
20	Uncovering hidden sesquiterpene biosynthetic pathway through expression boost area-mediated productivity enhancement in basidiomycete. <i>Journal of Antibiotics</i> , 2020, 73, 721-728.	1.0	5
21	Concise Biosynthesis of Phenylfuopyridones in Fungi. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 19889-19893.	7.2	12
22	Concise Biosynthesis of Phenylfuopyridones in Fungi. <i>Angewandte Chemie</i> , 2020, 132, 20061-20065.	1.6	3
23	Characterization of Colibactin-Producing <i>Escherichia coli</i> Isolated from Japanese Patients with Colorectal Cancer. <i>Japanese Journal of Infectious Diseases</i> , 2020, 73, 437-442.	0.5	18
24	Genotyping of a gene cluster for production of colibactin and in vitro genotoxicity analysis of <i>Escherichia coli</i> strains obtained from the Japan Collection of Microorganisms. <i>Genes and Environment</i> , 2020, 42, 12.	0.9	8
25	Novel <i>o</i> -Toluidine Metabolite in Rat Urine Associated with Urinary Bladder Carcinogenesis. <i>Chemical Research in Toxicology</i> , 2020, 33, 1907-1914.	1.7	10
26	Structural and Functional Analyses of a Spiro-Carbon-Forming, Highly Promiscuous Epoxidase from Fungal Natural Product Biosynthesis. <i>Biochemistry</i> , 2020, 59, 4787-4792.	1.2	8
27	A new class of dimeric product isolated from the fungus <i>Chaetomium globosum</i> : evaluation of chemical structure and biological activity. <i>Journal of Antibiotics</i> , 2020, 73, 320-323.	1.0	5
28	Oxidative Modification Enzymes in Polyketide Biosynthetic Pathways. , 2020, , 479-505.		1
29	Functional and Structural Analyses of <i>trans</i> -C-Methyltransferase in Fungal Polyketide Biosynthesis. <i>Biochemistry</i> , 2019, 58, 3933-3937.	1.2	11
30	Genomic Mushroom Hunting Decrypts Coprinoferrin, A Siderophore Secondary Metabolite Vital to Fungal Cell Development. <i>Organic Letters</i> , 2019, 21, 7582-7586.	2.4	11
31	Biosynthesis of lagopodins in mushroom involves a complex network of oxidation reactions. <i>Organic and Biomolecular Chemistry</i> , 2019, 17, 234-239.	1.5	11
32	Activity-Based Probe for Screening of High-Colibactin Producers from Clinical Samples. <i>Organic Letters</i> , 2019, 21, 4490-4494.	2.4	18
33	<i>In vitro</i> genotoxicity analyses of colibactin-producing <i>E. coli</i> isolated from a Japanese colorectal cancer patient. <i>Journal of Toxicological Sciences</i> , 2019, 44, 871-876.	0.7	11
34	Polyketide Synthase "Nonribosomal Peptide Synthetase Hybrid Enzymes of Fungi. , 2018, , 367-383.		2
35	Genome Mining and Assembly-Line Biosynthesis of the UCS1025A Pyrrolizidinone Family of Fungal Alkaloids. <i>Journal of the American Chemical Society</i> , 2018, 140, 2067-2071.	6.6	58
36	Naphthalene glycosides in the Thai medicinal plant <i>Diospyros mollis</i> . <i>Journal of Natural Medicines</i> , 2018, 72, 220-229.	1.1	12

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37	Enzymatic one-step ring contraction for quinolone biosynthesis. <i>Nature Communications</i> , 2018, 9, 2826.	5.8	18
38	Enzymatic Amide Tailoring Promotes Retroaldol Amino Acid Conversion To Form the Antifungal Agent Spirochlorine. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 14051-14054.	7.2	17
39	Enzymatic Amide Tailoring Promotes Retroaldol Amino Acid Conversion To Form the Antifungal Agent Spirochlorine. <i>Angewandte Chemie</i> , 2018, 130, 14247-14250.	1.6	3
40	Enzyme-catalyzed cationic epoxide rearrangements in quinolone alkaloid biosynthesis. <i>Nature Chemical Biology</i> , 2017, 13, 325-332.	3.9	44
41	Collaborative Biosynthesis of Maleimide- and Succinimide-Containing Natural Products by Fungal Polyketide Megasyntases. <i>Journal of the American Chemical Society</i> , 2017, 139, 5317-5320.	6.6	59
42	Elucidation of Biosynthetic Pathways of Natural Products. <i>Chemical Record</i> , 2017, 17, 1095-1108.	2.9	15
43	Integration of Chemical, Genetic, and Bioinformatic Approaches Delineates Fungal Polyketide-Peptide Hybrid Biosynthesis. <i>Organic Letters</i> , 2017, 19, 2002-2005.	2.4	18
44	Oxidative Cyclization in Natural Product Biosynthesis. <i>Chemical Reviews</i> , 2017, 117, 5226-5333.	23.0	288
45	Effects of <i>pex1</i> disruption on wood lignin biodegradation, fruiting development and the utilization of carbon sources in the white-rot Agaricomycete <i>Pleurotus ostreatus</i> and non-wood decaying <i>Coprinopsis cinerea</i> . <i>Fungal Genetics and Biology</i> , 2017, 109, 7-15.	0.9	24
46	Design and synthesis of benzoacridines as estrogenic and anti-estrogenic agents. <i>Bioorganic and Medicinal Chemistry</i> , 2017, 25, 5216-5237.	1.4	17
47	SAM-dependent enzyme-catalysed pericyclic reactions in natural product biosynthesis. <i>Nature</i> , 2017, 549, 502-506.	13.7	155
48	Evaluation of Biosynthetic Pathway and Engineered Biosynthesis of Alkaloids. <i>Molecules</i> , 2016, 21, 1078.	1.7	65
49	Oxidative <i>trans</i> to <i>cis</i> Isomerization of Olefins in Polyketide Biosynthesis. <i>Angewandte Chemie</i> , 2016, 128, 6315-6318.	1.6	4
50	New natural products isolated from <i>Metarhizium robertsii</i> ARSEF 23 by chemical screening and identification of the gene cluster through engineered biosynthesis in <i>Aspergillus nidulans</i> A1145. <i>Journal of Antibiotics</i> , 2016, 69, 561-566.	1.0	32
51	Regioselective Dichlorination of a Non-Activated Aliphatic Carbon Atom and Phenolic Bismethylation by a Multifunctional Fungal Flavoenzyme. <i>Angewandte Chemie</i> , 2016, 128, 12134-12138.	1.6	6
52	Regioselective Dichlorination of a Non-Activated Aliphatic Carbon Atom and Phenolic Bismethylation by a Multifunctional Fungal Flavoenzyme. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 11955-11959.	7.2	31
53	Biochemical Characterization of a Eukaryotic Decalin-Forming Diels-Alderase. <i>Journal of the American Chemical Society</i> , 2016, 138, 15837-15840.	6.6	98
54	Oxidative <i>trans</i> to <i>cis</i> Isomerization of Olefins in Polyketide Biosynthesis. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 6207-6210.	7.2	23

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55	Combinatorial Generation of Chemical Diversity by Redox Enzymes in Chaetoviridin Biosynthesis. <i>Organic Letters</i> , 2016, 18, 1446-1449.	2.4	34
56	Involvement of Lipocalin-like CghA in Decalin-Forming Stereoselective Intramolecular [4+2] Cycloaddition. <i>ChemBioChem</i> , 2015, 16, 2294-2298.	1.3	80
57	Epoxide Hydrolase-like Lasalocid A Structure Provides Mechanistic Insight into Polyether Natural Product Biosynthesis. <i>Journal of the American Chemical Society</i> , 2015, 137, 86-89.	6.6	21
58	Biochemical and Structural Basis for Controlling Chemical Modularity in Fungal Polyketide Biosynthesis. <i>Journal of the American Chemical Society</i> , 2015, 137, 9885-9893.	6.6	53
59	Tandem Prenyltransferases Catalyze Isoprenoid Elongation and Complexity Generation in Biosynthesis of Quinolone Alkaloids. <i>Journal of the American Chemical Society</i> , 2015, 137, 4980-4983.	6.6	55
60	Elucidation of Pyranonigrin Biosynthetic Pathway Reveals a Mode of Tetramic Acid, Fused β -Pyrone, and <i>exo</i> -Methylene Formation. <i>Organic Letters</i> , 2015, 17, 4992-4995.	2.4	40
61	Elucidation of the shanorellin biosynthetic pathway and functional analysis of associated enzymes. <i>MedChemComm</i> , 2015, 6, 425-430.	3.5	4
62	Methylation-Dependent Acyl Transfer between Polyketide Synthase and Nonribosomal Peptide Synthetase Modules in Fungal Natural Product Biosynthesis. <i>Organic Letters</i> , 2014, 16, 6390-6393.	2.4	33
63	Cytochrome P450 as Dimerization Catalyst in Diketopiperazine Alkaloid Biosynthesis. <i>ChemBioChem</i> , 2014, 15, 656-659.	1.3	77
64	Conversion of a Disulfide Bond into a Thioacetal Group during Echinomycin Biosynthesis. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 824-828.	7.2	29
65	Non-heme Dioxygenase Catalyzes Atypical Oxidations of 6,7-bicyclic Systems To Form the 6,6-quinolone Core of Viridicatin-type Fungal Alkaloids. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 12880-12884.	7.2	104
66	Elucidation of Pseurotin Biosynthetic Pathway Points to Trans-Acting <i>C</i> -Methyltransferase: Generation of Chemical Diversity. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 8475-8479.	7.2	53
67	Non-heme Dioxygenase Catalyzes Atypical Oxidations of 6,7-bicyclic Systems To Form the 6,6-quinolone Core of Viridicatin-type Fungal Alkaloids. <i>Angewandte Chemie</i> , 2014, 126, 13094-13098.	1.6	12
68	Generation of Complexity in Fungal Terpene Biosynthesis: Discovery of a Multifunctional Cytochrome P450 in the Fumagillin Pathway. <i>Journal of the American Chemical Society</i> , 2014, 136, 4426-4436.	6.6	87
69	Effective Use of Heterologous Hosts for Characterization of Biosynthetic Enzymes Allows Production of Natural Products and Promotes New Natural Product Discovery. <i>Chemical and Pharmaceutical Bulletin</i> , 2014, 62, 1153-1165.	0.6	8
70	Yeast-based genome mining, production and mechanistic studies of the biosynthesis of fungal polyketide and peptide natural products. <i>Natural Product Reports</i> , 2013, 30, 1139.	5.2	52
71	Biosynthetic machinery of ionophore polyether lasalocid: enzymatic construction of polyether skeleton. <i>Current Opinion in Chemical Biology</i> , 2013, 17, 555-561.	2.8	20
72	Distinct mechanisms for spiro-carbon formation reveal biosynthetic pathway crosstalk. <i>Nature Chemical Biology</i> , 2013, 9, 818-825.	3.9	123

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73	Core Assembly Mechanism of Quinocarcin/SF-1739: Bimodular Complex Nonribosomal Peptide Synthetases for Sequential Mannich-type Reactions. <i>Chemistry and Biology</i> , 2013, 20, 1523-1535.	6.2	31
74	Targeted Disruption of Transcriptional Regulators in <i>Chaetomium globosum</i> Activates Biosynthetic Pathways and Reveals Transcriptional Regulator-Like Behavior of Aureonitol. <i>Journal of the American Chemical Society</i> , 2013, 135, 13446-13455.	6.6	52
75	Echinomycin biosynthesis. <i>Current Opinion in Chemical Biology</i> , 2013, 17, 537-545.	2.8	37
76	Combinatorial Generation of Complexity by Redox Enzymes in the Chaetoglobosin A Biosynthesis. <i>Journal of the American Chemical Society</i> , 2013, 135, 7371-7377.	6.6	97
77	The Pictet-Spengler Mechanism Involved in the Biosynthesis of Tetrahydroisoquinoline Antitumor Antibiotics. <i>Methods in Enzymology</i> , 2012, 516, 79-98.	0.4	10
78	Overexpressing transcriptional regulator in <i>Chaetomium globosum</i> activates a silent biosynthetic pathway: evaluation of shanorellin biosynthesis. <i>Journal of Antibiotics</i> , 2012, 65, 377-380.	1.0	12
79	Enzymatic catalysis of anti-Baldwin ring closure in polyether biosynthesis. <i>Nature</i> , 2012, 483, 355-358.	13.7	117
80	Sequential Enzymatic Epoxidation Involved in Polyether Lasalocid Biosynthesis. <i>Journal of the American Chemical Society</i> , 2012, 134, 7246-7249.	6.6	59
81	Identification and Characterization of the Chaetoviridin and Chaetomugilin Gene Cluster in <i>Chaetomium globosum</i> Reveal Dual Functions of an Iterative Highly-Reducing Polyketide Synthase. <i>Journal of the American Chemical Society</i> , 2012, 134, 17900-17903.	6.6	93
82	Robustness analysis of cellular systems using the genetic tug-of-war method. <i>Molecular BioSystems</i> , 2012, 8, 2513.	2.9	22
83	Establishing a New Methodology for Genome Mining and Biosynthesis of Polyketides and Peptides through Yeast Molecular Genetics. <i>ChemBioChem</i> , 2012, 13, 846-854.	1.3	65
84	Overexpressing Transcriptional Regulator in <i>Aspergillus oryzae</i> Activates a Silent Biosynthetic Pathway to Produce a Novel Polyketide. <i>ChemBioChem</i> , 2012, 13, 855-861.	1.3	34
85	Pictet-Spenglerase involved in tetrahydroisoquinoline antibiotic biosynthesis. <i>Current Opinion in Chemical Biology</i> , 2012, 16, 142-149.	2.8	31
86	Enzymatic Epoxide-Opening Cascades Catalyzed by a Pair of Epoxide Hydrolases in the Ionophore Polyether Biosynthesis. <i>Organic Letters</i> , 2011, 13, 1638-1641.	2.4	43
87	A comprehensive overview on genomically directed assembly of aromatic polyketides and macrolide lactones using fungal megasynthases. <i>Journal of Antibiotics</i> , 2011, 64, 9-17.	1.0	11
88	Involvement of common intermediate 3-hydroxy-L-kynurenine in chromophore biosynthesis of quinomycin family antibiotics. <i>Journal of Antibiotics</i> , 2011, 64, 117-122.	1.0	14
89	Practical Synthesis of DOPA Derivative for Biosynthetic Production of Potent Antitumor Natural Products, Saframycins and Ecteinascidin 743. <i>Letters in Organic Chemistry</i> , 2011, 8, 686-689.	0.2	3
90	Reconstruction of the saframycin core scaffold defines dual Pictet-Spengler mechanisms. <i>Nature Chemical Biology</i> , 2010, 6, 408-410.	3.9	101

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91	Intriguing Substrate Tolerance of Epoxide Hydrolase Lsd19 Involved in Biosynthesis of the Ionophore Antibiotic Lasalocid A. <i>Organic Letters</i> , 2010, 12, 2226-2229.	2.4	27
92	Plasmid Construction Using Recombination Activity in the Fission Yeast <i>Schizosaccharomyces pombe</i> . <i>PLoS ONE</i> , 2010, 5, e9652.	1.1	27
93	Enzymatic Synthesis of Molecular Skeletons of Complex Antitumor Antibiotics with Non-ribosomal Peptide Synthetases. Yuki Gosei Kagaku Kyokaiishi/ <i>Journal of Synthetic Organic Chemistry</i> , 2009, 67, 1152-1160.	0.0	4
94	Identification of a Gene Cluster of Polyether Antibiotic Lasalocid from <i>Streptomyces lasaliensis</i> . <i>Bioscience, Biotechnology and Biochemistry</i> , 2009, 73, 169-176.	0.6	52
95	Chapter 15 Plasmid-Borne Gene Cluster Assemblage and Heterologous Biosynthesis of Nonribosomal Peptides in <i>Escherichia coli</i> . <i>Methods in Enzymology</i> , 2009, 458, 379-399.	0.4	2
96	Rationally Engineered Total Biosynthesis of a Synthetic Analogue of a Natural Quinomycin Depsipeptide in <i>Escherichia coli</i> . <i>ChemBioChem</i> , 2009, 10, 1965-1968.	1.3	14
97	Chromatin-level regulation of biosynthetic gene clusters. <i>Nature Chemical Biology</i> , 2009, 5, 462-464.	3.9	358
98	Diversification of echinomycin molecular structure by way of chemoenzymatic synthesis and heterologous expression of the engineered echinomycin biosynthetic pathway. <i>Current Opinion in Chemical Biology</i> , 2009, 13, 189-196.	2.8	36
99	Biochemical Analysis of the Biosynthetic Pathway of an Anticancer Tetracycline SF2575. <i>Journal of the American Chemical Society</i> , 2009, 131, 17677-17689.	6.6	88
100	<i>Escherichia coli</i> Allows Efficient Modular Incorporation of Newly Isolated Quinomycin Biosynthetic Enzyme into Echinomycin Biosynthetic Pathway for Rational Design and Synthesis of Potent Antibiotic Unnatural Natural Product. <i>Journal of the American Chemical Society</i> , 2009, 131, 9347-9353.	6.6	55
101	Synergistic Actions of a Monooxygenase and Cyclases in Aromatic Polyketide Biosynthesis. <i>ChemBioChem</i> , 2008, 9, 1710-1715.	1.3	30
102	Complete sequence of biosynthetic gene cluster responsible for producing triostin A and evaluation of quinomycin-type antibiotics from <i>Streptomyces triostinicus</i> . <i>Biotechnology Progress</i> , 2008, 24, 1226-1231.	1.3	27
103	Molecular Genetic Mining of the <i>Aspergillus</i> Secondary Metabolome: Discovery of the Emericellamide Biosynthetic Pathway. <i>Chemistry and Biology</i> , 2008, 15, 527-532.	6.2	193
104	Enzymatic Macrolactonization in the Presence of DNA Leading to Triostin A Analogs. <i>Chemistry and Biology</i> , 2008, 15, 818-828.	6.2	20
105	Improved Production of Triostin A in Engineered <i>Escherichia coli</i> with Furnished Quinoxaline Chromophore by Design of Experiments in Small-Scale Culture. <i>Biotechnology Progress</i> , 2008, 24, 134-139.	1.3	15
106	Identifying the Minimal Enzymes Required for Anhydrotetracycline Biosynthesis. <i>Journal of the American Chemical Society</i> , 2008, 130, 6068-6069.	6.6	70
107	Epoxide Hydrolase Lsd19 for Polyether Formation in the Biosynthesis of Lasalocid A: Direct Experimental Evidence on Polyene-Polyepoxide Hypothesis in Polyether Biosynthesis. <i>Journal of the American Chemical Society</i> , 2008, 130, 12230-12231.	6.6	79
108	Redirecting the Cyclization Steps of Fungal Polyketide Synthase. <i>Journal of the American Chemical Society</i> , 2008, 130, 38-39.	6.6	55

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109	A polyketide macrolactone synthase from the filamentous fungus <i>Gibberella zeae</i> . Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 6249-6254.	3.3	82
110	Exploring the Biosynthesis of Natural Products and Their Inherent Suitability for the Rational Design of Desirable Compounds through Genetic Engineering. Bioscience, Biotechnology and Biochemistry, 2008, 72, 2491-2506.	0.6	18
111	Investigation of Early Tailoring Reactions in the Oxytetracycline Biosynthetic Pathway. Journal of Biological Chemistry, 2007, 282, 25717-25725.	1.6	54
112	Relative and Absolute Configuration of Antitumor Agent SW-163D. Bioscience, Biotechnology and Biochemistry, 2007, 71, 2969-2976.	0.6	20
113	Robust platform for de novo production of heterologous polyketides and nonribosomal peptides in <i>Escherichia coli</i> . Organic and Biomolecular Chemistry, 2007, 5, 593-602.	1.5	22
114	A New Mechanism for Benzopyrone Formation in Aromatic Polyketide Biosynthesis. Journal of the American Chemical Society, 2007, 129, 9304-9305.	6.6	38
115	Enzymatic Synthesis of Aromatic Polyketides Using PKS4 from <i>Gibberella fujikuroi</i> . Journal of the American Chemical Society, 2007, 129, 10642-10643.	6.6	63
116	A comprehensive and engaging overview of the type III family of polyketide synthases. Current Opinion in Chemical Biology, 2007, 11, 279-286.	2.8	38
117	Heterologous Biosynthesis of Amidated Polyketides with Novel Cyclization Regioselectivity from Oxytetracycline Polyketide Synthase. Journal of Natural Products, 2006, 69, 1633-1636.	1.5	17
118	Identification and Stereochemical Assignment of the β^2 -Hydroxytryptophan Intermediate in the Echinomycin Biosynthetic Pathway. Organic Letters, 2006, 8, 4719-4722.	2.4	21
119	Total biosynthesis of antitumor nonribosomal peptides in <i>Escherichia coli</i> . , 2006, 2, 423-428.		194
120	Biosynthesis of Lovastatin Analogs with a Broadly Specific Acyltransferase. Chemistry and Biology, 2006, 13, 1161-1169.	6.2	136
121	β -Glucosidase from a strain of deep-sea <i>Geobacillus</i> : a potential enzyme for the biosynthesis of complex carbohydrates. Applied Microbiology and Biotechnology, 2005, 68, 757-765.	1.7	52
122	Structural and Functional Analysis of Tetracenomycin F2 Cyclase from <i>Streptomyces glaucescens</i> . Journal of Biological Chemistry, 2004, 279, 37956-37963.	1.6	54
123	Characterization of Starch Synthase I and II Expressed in Early Developing Seeds of Kidney Bean (<i>Phaseolus vulgaris</i> L.). Bioscience, Biotechnology and Biochemistry, 2004, 68, 1949-1960.	0.6	16
124	Cloning and heterologous expression of a glucodextranase gene from <i>Arthrobacter globiformis</i> I42, and experimental evidence for the catalytic diad of the recombinant enzyme. Journal of Bioscience and Bioengineering, 2004, 97, 127-130.	1.1	3
125	Cloning and heterologous expression of a β^2 -fructofuranosidase gene from <i>Arthrobacter globiformis</i> IFO 3062, and site-directed mutagenesis of the essential aspartic acid and glutamic acid of the active site. Journal of Bioscience and Bioengineering, 2004, 97, 244-249.	1.1	13
126	Enzymatic synthesis of two novel non-reducing oligosaccharides using transfructosylation activity with β^2 -fructofuranosidase from <i>Arthrobacter globiformis</i> . Biotechnology Letters, 2004, 26, 499-503.	1.1	19

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127	Site-directed mutagenesis establishes aspartic acids-227 and -342 as essential for enzyme activity in an isomalto-dextranase from <i>Arthrobacter globiformis</i> . <i>Biotechnology Letters</i> , 2004, 26, 659-664.	1.1	3
128	Structure of macrophomate synthase. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2004, 60, 1187-1197.	2.5	14
129	Cloning of a Gene Cluster Responsible for the Biosynthesis of Diterpene Aphidicolin, a Specific Inhibitor of DNA Polymerase I±. <i>Bioscience, Biotechnology and Biochemistry</i> , 2004, 68, 146-152.	0.6	50
130	Occurrence of Multiple Forms for Starch Synthase II Isozyme in Developing Seeds of Kidney Bean. <i>Journal of Applied Glycoscience</i> (1999), 2004, 51, 101-107.	0.3	7
131	Cloning, Sequencing and Heterologous Expression of the Gene Encoding Glucoamylase from <i>Clostridium thermoamylolyticum</i> and Biochemical Characterization of the Recombinant Enzyme. <i>Journal of Applied Glycoscience</i> (1999), 2004, 51, 33-36.	0.3	2
132	Insight into a natural Diels-€Alder reaction from the structure of macrophomate synthase. <i>Nature</i> , 2003, 422, 185-189.	13.7	187
133	Crystal Structure of an Acyl-ACP Dehydrogenase from the FK520 Polyketide Biosynthetic Pathway: Insights into Extender Unit Biosynthesis. <i>Journal of Molecular Biology</i> , 2003, 334, 435-444.	2.0	35
134	Engineered biosynthesis of an ansamycin polyketide precursor in <i>Escherichia coli</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 9774-9778.	3.3	83
135	Understanding Substrate Specificity of Polyketide Synthase Modules by Generating Hybrid Multimodular Synthases. <i>Journal of Biological Chemistry</i> , 2003, 278, 42020-42026.	1.6	65
136	Reaction mechanism of the macrophomate synthase: experimental evidence on intermediacy of a bicyclic compound. <i>Tetrahedron Letters</i> , 2000, 41, 1443-1446.	0.7	18
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