

Kenji Watanabe

List of Publications by Year in descending order

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142
papers

5,732
citations

66234

42
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98622

67
g-index

153
all docs

153
docs citations

153
times ranked

4791
citing authors

#	ARTICLE	IF	CITATIONS
1	Chromatin-level regulation of biosynthetic gene clusters. <i>Nature Chemical Biology</i> , 2009, 5, 462-464.	3.9	358
2	Oxidative Cyclization in Natural Product Biosynthesis. <i>Chemical Reviews</i> , 2017, 117, 5226-5333.	23.0	288
3	Total biosynthesis of antitumor nonribosomal peptides in <i>Escherichia coli</i> . , 2006, 2, 423-428.		194
4	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
5	Insight into a natural Diels-Alder reaction from the structure of macrophomate synthase. <i>Nature</i> , 2003, 422, 185-189.	13.7	187
6	SAM-dependent enzyme-catalysed pericyclic reactions in natural product biosynthesis. <i>Nature</i> , 2017, 549, 502-506.	13.7	155
7	Biosynthesis of Lovastatin Analogs with a Broadly Specific Acyltransferase. <i>Chemistry and Biology</i> , 2006, 13, 1161-1169.	6.2	136
8	Distinct mechanisms for spiro-carbon formation reveal biosynthetic pathway crosstalk. <i>Nature Chemical Biology</i> , 2013, 9, 818-825.	3.9	123
9	Enzymatic catalysis of anti-Baldwin ring closure in polyether biosynthesis. <i>Nature</i> , 2012, 483, 355-358.	13.7	117
10	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
11	Reconstruction of the saframycin core scaffold defines dual Pictet-Spengler mechanisms. <i>Nature Chemical Biology</i> , 2010, 6, 408-410.	3.9	101
12	Biochemical Characterization of a Eukaryotic Decalin-Forming Diels-Alderase. <i>Journal of the American Chemical Society</i> , 2016, 138, 15837-15840.	6.6	98
13	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
14	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
15	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
16	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
17	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
18	A polyketide macrolactone synthase from the filamentous fungus <i>Gibberella zeae</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 6249-6254.	3.3	82

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19	Involvement of Lipocalin-like CgA in Decalin-Forming Stereoselective Intramolecular [4+2] Cycloaddition. <i>ChemBioChem</i> , 2015, 16, 2294-2298.	1.3	80
20	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
21	Cytochrome P450 as Dimerization Catalyst in Diketopiperazine Alkaloid Biosynthesis. <i>ChemBioChem</i> , 2014, 15, 656-659.	1.3	77
22	Detailed Reaction Mechanism of Macrophomate Synthase. <i>Journal of Biological Chemistry</i> , 2000, 275, 38393-38401.	1.6	76
23	Identifying the Minimal Enzymes Required for Anhydrotetracycline Biosynthesis. <i>Journal of the American Chemical Society</i> , 2008, 130, 6068-6069.	6.6	70
24	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
25	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
26	Evaluation of Biosynthetic Pathway and Engineered Biosynthesis of Alkaloids. <i>Molecules</i> , 2016, 21, 1078.	1.7	65
27	Enzymatic Synthesis of Aromatic Polyketides Using PKS4 from <i>Gibberella fujikuroi</i> . <i>Journal of the American Chemical Society</i> , 2007, 129, 10642-10643.	6.6	63
28	Sequential Enzymatic Epoxidation Involved in Polyether Lasalocid Biosynthesis. <i>Journal of the American Chemical Society</i> , 2012, 134, 7246-7249.	6.6	59
29	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
30	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
31	Redirecting the Cyclization Steps of Fungal Polyketide Synthase. <i>Journal of the American Chemical Society</i> , 2008, 130, 38-39.	6.6	55
32	<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
33	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
34	Structural and Functional Analysis of Tetracenomycin F2 Cyclase from <i>Streptomyces glaucescens</i> . <i>Journal of Biological Chemistry</i> , 2004, 279, 37956-37963.	1.6	54
35	Investigation of Early Tailoring Reactions in the Oxytetracycline Biosynthetic Pathway. <i>Journal of Biological Chemistry</i> , 2007, 282, 25717-25725.	1.6	54
36	Elucidation of Pseurotin Biosynthetic Pathway Points to Trans-Acting Methyltransferase: Generation of Chemical Diversity. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 8475-8479.	7.2	53

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37	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
38	Î±-Glucosidase from a strain of deep-sea <i>Geobacillus</i> : a potential enzyme for the biosynthesis of complex carbohydrates. <i>Applied Microbiology and Biotechnology</i> , 2005, 68, 757-765.	1.7	52
39	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
40	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
41	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
42	Cloning of a Gene Cluster Responsible for the Biosynthesis of Diterpene Aphidicolin, a Specific Inhibitor of DNA Polymerase Î±. <i>Bioscience, Biotechnology and Biochemistry</i> , 2004, 68, 146-152.	0.6	50
43	Enzyme-catalyzed cationic epoxide rearrangements in quinolone alkaloid biosynthesis. <i>Nature Chemical Biology</i> , 2017, 13, 325-332.	3.9	44
44	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
45	Elucidation of Pyranonigrin Biosynthetic Pathway Reveals a Mode of Tetramic Acid, Fused Î³-Pyrone, and <i>exo</i> -Methylene Formation. <i>Organic Letters</i> , 2015, 17, 4992-4995.	2.4	40
46	Biosynthesis of macrophomic acid: plausible involvement of intermolecular Diels-Alder reaction. <i>Chemical Communications</i> , 1997, , 97-98.	2.2	38
47	A New Mechanism for Benzopyrone Formation in Aromatic Polyketide Biosynthesis. <i>Journal of the American Chemical Society</i> , 2007, 129, 9304-9305.	6.6	38
48	A comprehensive and engaging overview of the type III family of polyketide synthases. <i>Current Opinion in Chemical Biology</i> , 2007, 11, 279-286.	2.8	38
49	Macrophomate Synthase: Characterization, Sequence, and Expression in <i>Escherichia coli</i> of the Novel Enzyme Catalyzing Unusual Multistep Transformation of 2-Pyrones to Benzoates. <i>Journal of Biochemistry</i> , 2000, 127, 467-473.	0.9	37
50	Echinomycin biosynthesis. <i>Current Opinion in Chemical Biology</i> , 2013, 17, 537-545.	2.8	37
51	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
52	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
53	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
54	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

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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	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
57	Macrophomate synthase: unusual enzyme catalyzing multiple reactions from pyrones to benzoates. <i>Tetrahedron Letters</i> , 1999, 40, 6983-6986.	0.7	32
58	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
59	Pictet-Spenglerase involved in tetrahydroisoquinoline antibiotic biosynthesis. <i>Current Opinion in Chemical Biology</i> , 2012, 16, 142-149.	2.8	31
60	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
61	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
62	Synergistic Actions of a Monooxygenase and Cyclases in Aromatic Polyketide Biosynthesis. <i>ChemBioChem</i> , 2008, 9, 1710-1715.	1.3	30
63	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
64	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
65	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
66	Plasmid Construction Using Recombination Activity in the Fission Yeast <i>Schizosaccharomyces pombe</i> . <i>PLoS ONE</i> , 2010, 5, e9652.	1.1	27
67	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
68	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
69	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
70	Robust platform for de novo production of heterologous polyketides and nonribosomal peptides in <i>Escherichia coli</i> . <i>Organic and Biomolecular Chemistry</i> , 2007, 5, 593-602.	1.5	22
71	Robustness analysis of cellular systems using the genetic tug-of-war method. <i>Molecular BioSystems</i> , 2012, 8, 2513.	2.9	22
72	Identification and Stereochemical Assignment of the β^2 -Hydroxytryptophan Intermediate in the Echinomycin Biosynthetic Pathway. <i>Organic Letters</i> , 2006, 8, 4719-4722.	2.4	21

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73	Epoxide Hydrolaseâ€“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
74	Relative and Absolute Configuration of Antitumor Agent SW-163D. <i>Bioscience, Biotechnology and Biochemistry</i> , 2007, 71, 2969-2976.	0.6	20
75	Enzymatic Macrolactonization in the Presence of DNA Leading to Triostin A Analogs. <i>Chemistry and Biology</i> , 2008, 15, 818-828.	6.2	20
76	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
77	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
78	Substrate Diversity of Macrophomate Synthase Catalyzing an Unusual Multistep Transformation from 2-Pyrones to Benzoates. <i>Bioscience, Biotechnology and Biochemistry</i> , 2000, 64, 530-538.	0.6	19
79	Enzymatic synthesis of two novel non-reducing oligosaccharides using transfructosylation activity with Î²-fructofuranosidase from <i>Arthrobacter globiformis</i> . <i>Biotechnology Letters</i> , 2004, 26, 499-503.	1.1	19
80	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
81	Exploring the Biosynthesis of Natural Products and Their Inherent Suitability for the Rational Design of Desirable Compounds through Genetic Engineering. <i>Bioscience, Biotechnology and Biochemistry</i> , 2008, 72, 2491-2506.	0.6	18
82	Integration of Chemical, Genetic, and Bioinformatic Approaches Delineates Fungal Polyketideâ€“Peptide Hybrid Biosynthesis. <i>Organic Letters</i> , 2017, 19, 2002-2005.	2.4	18
83	Enzymatic one-step ring contraction for quinolone biosynthesis. <i>Nature Communications</i> , 2018, 9, 2826.	5.8	18
84	Activity-Based Probe for Screening of High-Colibactin Producers from Clinical Samples. <i>Organic Letters</i> , 2019, 21, 4490-4494.	2.4	18
85	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
86	Heterologous Biosynthesis of Amidated Polyketides with Novel Cyclization Regioselectivity from Oxytetracycline Polyketide Synthase. <i>Journal of Natural Products</i> , 2006, 69, 1633-1636.	1.5	17
87	Design and synthesis of benzoacridines as estrogenic and anti-estrogenic agents. <i>Bioorganic and Medicinal Chemistry</i> , 2017, 25, 5216-5237.	1.4	17
88	Enzymatic Amide Tailoring Promotes Retroâ€“Aldol Amino Acid Conversion To Form the Antifungal Agent Aspirochlorine. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 14051-14054.	7.2	17
89	Characterization of Starch Synthase I and II Expressed in Early Developing Seeds of Kidney Bean (<i>Phaseolus vulgaris</i> L.). <i>Bioscience, Biotechnology and Biochemistry</i> , 2004, 68, 1949-1960.	0.6	16
90	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

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91	Mother-to-infant transmission of the carcinogenic colibactin-producing bacteria. BMC Microbiology, 2021, 21, 235.	1.3	16
92	Potent Inhibition of Macrophomate Synthase by Reaction Intermediate Analogs. Bioscience, Biotechnology and Biochemistry, 2000, 64, 2368-2379.	0.6	15
93	Improved Production of Triostin A in Engineered Escherichia coli with Furnished Quinoxaline Chromophore by Design of Experiments in Small-Scale Culture. Biotechnology Progress, 2008, 24, 134-139.	1.3	15
94	Elucidation of Biosynthetic Pathways of Natural Products. Chemical Record, 2017, 17, 1095-1108.	2.9	15
95	Structure of macrophomate synthase. Acta Crystallographica Section D: Biological Crystallography, 2004, 60, 1187-1197.	2.5	14
96	Rationally Engineered Total Biosynthesis of a Synthetic Analogue of a Natural Quinomycin Depsipeptide in <i>Escherichia coli</i> . ChemBioChem, 2009, 10, 1965-1968.	1.3	14
97	Involvement of common intermediate 3-hydroxy-L-kynurenine in chromophore biosynthesis of quinomycin family antibiotics. Journal of Antibiotics, 2011, 64, 117-122.	1.0	14
98	Cloning and heterologous expression of a β -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
99	Isolation of New Colibactin Metabolites from Wild-Type <i>Escherichia coli</i> and In Situ Trapping of a Mature Colibactin Derivative. Journal of the American Chemical Society, 2021, 143, 5526-5533.	6.6	13
100	Association of <i>Escherichia coli</i> containing polyketide synthase in the gut microbiota with colorectal neoplasia in Japan. Cancer Science, 2022, 113, 277-286.	1.7	13
101	Overexpressing transcriptional regulator in <i>Chaetomium globosum</i> activates a silent biosynthetic pathway: evaluation of shanorellin biosynthesis. Journal of Antibiotics, 2012, 65, 377-380.	1.0	12
102	Non-Heme Dioxygenase Catalyzes Atypical Oxidations of 6,7-Bicyclic Systems To Form the 6,6-Quinolone Core of Viridicatin-Type Fungal Alkaloids. Angewandte Chemie, 2014, 126, 13094-13098.	1.6	12
103	Naphthalene glycosides in the Thai medicinal plant <i>Diospyros mollis</i> . Journal of Natural Medicines, 2018, 72, 220-229.	1.1	12
104	Concise Biosynthesis of Phenylfuopyridones in Fungi. Angewandte Chemie - International Edition, 2020, 59, 19889-19893.	7.2	12
105	A comprehensive overview on genomically directed assembly of aromatic polyketides and macrolide lactones using fungal megasynthases. Journal of Antibiotics, 2011, 64, 9-17.	1.0	11
106	Functional and Structural Analyses of <i>trans</i> -C-Methyltransferase in Fungal Polyketide Biosynthesis. Biochemistry, 2019, 58, 3933-3937.	1.2	11
107	Genomic Mushroom Hunting Decrypts Coprinoferrin, A Siderophore Secondary Metabolite Vital to Fungal Cell Development. Organic Letters, 2019, 21, 7582-7586.	2.4	11
108	Biosynthesis of lagopodins in mushroom involves a complex network of oxidation reactions. Organic and Biomolecular Chemistry, 2019, 17, 234-239.	1.5	11

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109	<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
110	The Pictet-Spengler Mechanism Involved in the Biosynthesis of Tetrahydroisoquinoline Antitumor Antibiotics. <i>Methods in Enzymology</i> , 2012, 516, 79-98.	0.4	10
111	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
112	Biosynthesis of the Immunosuppressant (&sim)-FR901483. <i>Journal of the American Chemical Society</i> , 2021, 143, 132-136.	6.6	10
113	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
114	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
115	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
116	Recent advances in the chemo-biological characterization of decalin natural products and unraveling of the workings of Diels-Alderases. <i>Fungal Biology and Biotechnology</i> , 2022, 9, 9.	2.5	8
117	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
118	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
119	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
120	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
121	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
122	<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
123	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
124	Enzymatic Synthesis of Molecular Skeletons of Complex Antitumor Antibiotics with Non-ribosomal Peptide Synthetases. <i>Yuki Gosei Kagaku Kyokaiishi/Journal of Synthetic Organic Chemistry</i> , 2009, 67, 1152-1160.	0.0	4
125	Elucidation of the shanorellin biosynthetic pathway and functional analysis of associated enzymes. <i>MedChemComm</i> , 2015, 6, 425-430.	3.5	4
126	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

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127	Discovery and investigation of natural Diels-Alderses. Journal of Natural Medicines, 2021, 75, 434-447.	1.1	4
128	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. BMC Microbiology, 2021, 21, 196.	1.3	4
129	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
130	Site-directed mutagenesis establishes aspartic acids-227 and -342 as essential for enzyme activity in an isomalto-dextranase from <i>Arthrobacter globiformis</i> . Biotechnology Letters, 2004, 26, 659-664.	1.1	3
131	Practical Synthesis of DOPA Derivative for Biosynthetic Production of Potent Antitumor Natural Products, Saframycins and Ecteinascidin 743. Letters in Organic Chemistry, 2011, 8, 686-689.	0.2	3
132	Enzymatic Amide Tailoring Promotes Retro-Aldol Amino Acid Conversion To Form the Antifungal Agent Aspirochlorine. Angewandte Chemie, 2018, 130, 14247-14250.	1.6	3
133	Concise Biosynthesis of Phenylfuropyridones in Fungi. Angewandte Chemie, 2020, 132, 20061-20065.	1.6	3
134	Toward Engineered Biosynthesis of Drugs in Human Cells. ChemBioChem, 2022, 23, .	1.3	3
135	Advancing the Biosynthetic and Chemical Understanding of the Carcinogenic Risk Factor Colibactin and Its Producers. Biochemistry, 2022, 61, 2782-2790.	1.2	3
136	Chapter 15 Plasmid-Borne Gene Cluster Assemblage and Heterologous Biosynthesis of Nonribosomal Peptides in <i>Escherichia coli</i> . Methods in Enzymology, 2009, 458, 379-399.	0.4	2
137	Polyketide Synthase-Nonribosomal Peptide Synthetase Hybrid Enzymes of Fungi. , 2018, , 367-383.		2
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