

Shunji Takahashi

List of Publications by Year in descending order

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96
papers

2,985
citations

172457

29
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182427

51
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101
all docs

101
docs citations

101
times ranked

3172
citing authors

#	ARTICLE	IF	CITATIONS
1	Fosmidomycin, a specific inhibitor of 1-deoxy-d-xylulose 5-phosphate reductoisomerase in the nonmevalonate pathway for terpenoid biosynthesis. <i>Tetrahedron Letters</i> , 1998, 39, 7913-7916.	1.4	364
2	Direct formation of 2-C-methyl-d-erythritol 4-phosphate from 1-deoxy-d-xylulose 5-phosphate by 1-deoxy-d-xylulose 5-phosphate reductoisomerase, a new enzyme in the non-mevalonate pathway to isopentenyl diphosphate. <i>Tetrahedron Letters</i> , 1998, 39, 4509-4512.	1.4	155
3	Cloning and Characterization of 1-Deoxy-d-Xylulose 5-Phosphate Synthase from <i>Streptomyces</i> sp. Strain CL190, Which Uses both the Mevalonate and Nonmevalonate Pathways for Isopentenyl Diphosphate Biosynthesis. <i>Journal of Bacteriology</i> , 2000, 182, 891-897.	2.2	128
4	Metabolic engineering of sesquiterpene metabolism in yeast. <i>Biotechnology and Bioengineering</i> , 2007, 97, 170-181.	3.3	123
5	Functional Characterization of Premnspiropodiene Oxygenase, a Cytochrome P450 Catalyzing Regio- and Stereo-specific Hydroxylations of Diverse Sesquiterpene Substrates. <i>Journal of Biological Chemistry</i> , 2007, 282, 31744-31754.	3.4	103
6	Characterization of Giant Modular PKSs Provides Insight into Genetic Mechanism for Structural Diversification of Aminopolyol Polyketides. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 1740-1745.	13.8	103
7	Characterization of 1-Deoxy-d-xylulose 5-Phosphate Reductoisomerase, an Enzyme Involved in Isopentenyl Diphosphate Biosynthesis, and Identification of Its Catalytic Amino Acid Residues. <i>Journal of Biological Chemistry</i> , 2000, 275, 19928-19932.	3.4	100
8	Reveromycin A biosynthesis uses RevG and RevJ for stereospecific spiroacetal formation. <i>Nature Chemical Biology</i> , 2011, 7, 461-468.	8.0	80
9	Construction of a microbial natural product library for chemical biology studies. <i>Current Opinion in Chemical Biology</i> , 2012, 16, 101-108.	6.1	72
10	Identification of Cytochrome P450s Required for Fumitremorgin Biosynthesis in <i>Aspergillus fumigatus</i> . <i>ChemBioChem</i> , 2009, 10, 920-928.	2.6	69
11	A Gene Cluster for the Mevalonate Pathway from <i>Streptomyces</i> sp. Strain CL190. <i>Journal of Bacteriology</i> , 2000, 182, 4153-4157.	2.2	68
12	A new enzyme involved in the control of the stereochemistry in the decalin formation during equisetin biosynthesis. <i>Biochemical and Biophysical Research Communications</i> , 2015, 460, 210-215.	2.1	65
13	Biochemical Characterization of a Novel Indole Prenyltransferase from <i>Streptomyces</i> sp. SN-593. <i>Journal of Bacteriology</i> , 2010, 192, 2839-2851.	2.2	64
14	Developing <i>Aspergillus niger</i> as a cell factory for food enzyme production. <i>Biotechnology Advances</i> , 2020, 44, 107630.	11.7	64
15	Purification, Characterization, and Cloning of a Eubacterial 3-Hydroxy-3-Methylglutaryl Coenzyme A Reductase, a Key Enzyme Involved in Biosynthesis of Terpenoids. <i>Journal of Bacteriology</i> , 1999, 181, 1256-1263.	2.2	58
16	Increased expression of GRP94 protein is associated with decreased sensitivity to X-rays in cervical cancer cell lines. <i>International Journal of Radiation Biology</i> , 2005, 81, 701-709.	1.8	50
17	Mutagenicity of bisphenol A and its suppression by interferon- β in human R5a cells. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 2001, 490, 199-207.	1.7	49
18	Control of the Stereochemical Course of [4+2] Cycloaddition during <i>trans</i> -Decalin Formation by Fsa2 Family Enzymes. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 9754-9758.	13.8	49

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19	Eremophilane Sesquiterpenes from Capsidiol. <i>Journal of Organic Chemistry</i> , 2004, 69, 7428-7435.	3.2	46
20	Kinetic and Molecular Analysis of 5-Epiaristolochene 1,3-Dihydroxylase, a Cytochrome P450 Enzyme Catalyzing Successive Hydroxylations of Sesquiterpenes. <i>Journal of Biological Chemistry</i> , 2005, 280, 3686-3696.	3.4	43
21	Verticilactam, a New Macrolactam Isolated from a Microbial Metabolite Fraction Library. <i>Organic Letters</i> , 2010, 12, 4564-4567.	4.6	39
22	Construction and Characterization of <i>Escherichia coli</i> Disruptants Defective in the <i>ymcM</i> Gene. <i>Bioscience, Biotechnology and Biochemistry</i> , 1999, 63, 776-778.	1.3	36
23	New Cyclic Lipopeptides of the Iturin Class Produced by Saltern-Derived <i>Bacillus</i> sp. KCB14S006. <i>Marine Drugs</i> , 2016, 14, 72.	4.6	33
24	Biosynthesis of Quinolidomycin, the Largest Known Macrolide of Terrestrial Origin: Identification and Heterologous Expression of a Biosynthetic Gene Cluster over 200 kb. <i>Organic Letters</i> , 2018, 20, 7996-7999.	4.6	33
25	Pyrrrolizilactone, a new pyrrolizidinone metabolite produced by a fungus. <i>Journal of Antibiotics</i> , 2013, 66, 621-623.	2.0	32
26	Identification of a novel sesquiterpene biosynthetic machinery involved in astellolide biosynthesis. <i>Scientific Reports</i> , 2016, 6, 32865.	3.3	32
27	Gene Disruption and Biochemical Characterization of Verruculogen Synthase of <i>Aspergillus fumigatus</i> . <i>ChemBioChem</i> , 2011, 12, 711-714.	2.6	31
28	Structures and biological activities of azaphilones produced by <i>Penicillium</i> sp. KCB11A109 from a ginseng field. <i>Phytochemistry</i> , 2016, 122, 154-164.	2.9	31
29	Surrogate Splicing for Functional Analysis of Sesquiterpene Synthase Genes. <i>Plant Physiology</i> , 2005, 138, 1322-1333.	4.8	30
30	RK-1355A and B, novel quinomycin derivatives isolated from a microbial metabolites fraction library based on NPPlot screening. <i>Journal of Antibiotics</i> , 2014, 67, 323-329.	2.0	30
31	Genetic Safeguard against Mycotoxin Cyclopiazonic Acid Production in <i>Aspergillus oryzae</i> . <i>ChemBioChem</i> , 2011, 12, 1376-1382.	2.6	29
32	Biosynthesis and Structure-Activity Relationship Studies of Okaramines That Target Insect Glutamate-Gated Chloride Channels. <i>ACS Chemical Biology</i> , 2018, 13, 561-566.	3.4	29
33	Protective role of HSP27 against LVC-induced cell death in human cells. <i>Experimental Cell Research</i> , 2004, 298, 584-592.	2.6	28
34	A Point Mutation in <i>ftmD</i> Blocks the Fumitremorgin Biosynthetic Pathway in <i>Aspergillus fumigatus</i> Strain Af293. <i>Bioscience, Biotechnology and Biochemistry</i> , 2013, 77, 1061-1067.	1.3	28
35	Stachybotrysin, an Osteoclast Differentiation Inhibitor from the Marine-Derived Fungus <i>Stachybotrys</i> sp. KCB13F013. <i>Journal of Natural Products</i> , 2016, 79, 2703-2708.	3.0	28
36	Furaquinocins I and J: novel polyketide isoprenoid hybrid compounds from <i>Streptomyces reveromyceticus</i> SN-593. <i>Journal of Antibiotics</i> , 2011, 64, 509-513.	2.0	27

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37	Development of a Terpenoid-Production Platform in <i>Streptomyces reveromyceticus</i> SN-593. ACS Synthetic Biology, 2017, 6, 2339-2349.	3.8	27
38	Unantimycin A, a new neoantimycin analog isolated from a microbial metabolite fraction library. Journal of Antibiotics, 2016, 69, 456-458.	2.0	26
39	Studies on the Biosynthesis of Terpenoid Compounds Produced by Actinomycetes. 3. Biosynthesis of the Isoprenoid Side Chain of Novobiocin via the Non-mevalonate Pathway in <i>Streptomyces niveus</i> . Journal of Antibiotics, 1998, 51, 676-678.	2.0	25
40	Induction of uPA release in human peripheral blood lymphocytes by [deamino-Cys1,d-Arg8]-vasopressin (dDAVP). American Journal of Physiology - Endocrinology and Metabolism, 2004, 287, E970-E976.	3.5	25
41	Haenamindole, an unusual diketopiperazine derivative from a marine-derived <i>Penicillium</i> sp. KCB12F005. Bioorganic and Medicinal Chemistry Letters, 2015, 25, 5398-5401.	2.2	25
42	Functional analyses of cytochrome P450 genes responsible for the early steps of brassicene C biosynthesis. Bioorganic and Medicinal Chemistry Letters, 2009, 19, 5640-5643.	2.2	23
43	Identification of a gene cluster for telomestatin biosynthesis and heterologous expression using a specific promoter in a clean host. Scientific Reports, 2017, 7, 3382.	3.3	23
44	Octaminomycins A and B, Cyclic Octadepsipeptides Active against <i>Plasmodium falciparum</i> . Journal of Natural Products, 2017, 80, 134-140.	3.0	22
45	Pentaminomycins A and B, Hydroxyarginine-Containing Cyclic Pentapeptides from <i>Streptomyces</i> sp. RK88-1441. Journal of Natural Products, 2018, 81, 806-810.	3.0	21
46	Detection of the Mevalonate Pathway in <i>Streptomyces</i> Species Using the 3-Hydroxy-3-methylglutaryl Coenzyme A Reductase Gene. Journal of Antibiotics, 2002, 55, 919-923.	2.0	20
47	A crotonyl-CoA reductase-carboxylase independent pathway for assembly of unusual alkylmalonyl-CoA polyketide synthase extender units. Nature Communications, 2016, 7, 13609.	12.8	20
48	Spirotoamides A and B, novel 6,6-spiroacetal polyketides isolated from a microbial metabolite fraction library. Journal of Antibiotics, 2012, 65, 123-128.	2.0	19
49	Identification of Middle Chain Fatty Acyl-CoA Ligase Responsible for the Biosynthesis of 2-Alkylmalonyl-CoAs for Polyketide Extender Unit. Journal of Biological Chemistry, 2015, 290, 26994-27011.	3.4	19
50	Structure-Function Analyses of Cytochrome P450rev1 Involved in Reveromycin A Biosynthesis and Evaluation of the Biological Activity of Its Substrate, Reveromycin T. Journal of Biological Chemistry, 2014, 289, 32446-32458.	3.4	18
51	Probing sesquiterpene hydroxylase activities in a coupled assay with terpene synthases. Archives of Biochemistry and Biophysics, 2003, 409, 385-394.	3.0	17
52	Wakodecalines A and B, new decaline metabolites isolated from a fungus <i>Pyrenochaetopsis</i> sp. RK10-F058. Journal of Antibiotics, 2018, 71, 123-128.	2.0	17
53	Increased ability of peripheral blood lymphocytes to degrade laminin in multiple sclerosis. Journal of the Neurological Sciences, 2004, 222, 7-11.	0.6	15
54	Mevalonate Pathway in Bacteria and Archaea. , 2010, , 493-516.		14

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55	Novel squalene-producing thraustochytrids found in mangrove water. <i>Bioscience, Biotechnology and Biochemistry</i> , 2017, 81, 2034-2037.	1.3	14
56	Opantimycin A, a new metabolite isolated from <i>Streptomyces</i> sp. RK88-1355. <i>Journal of Antibiotics</i> , 2017, 70, 222-225.	2.0	14
57	Î ² -carboline chemical signals induce reveromycin production through a LuxR family regulator in <i>Streptomyces</i> sp. SN-593. <i>Scientific Reports</i> , 2020, 10, 10230.	3.3	14
58	Improvement of Transformation Efficiency by Strategic Circumvention of Restriction Barriers in <i>Streptomyces griseus</i> . <i>Journal of Microbiology and Biotechnology</i> , 2011, 21, 675-678.	2.1	14
59	Heterologous Expression of the Biosynthetic Gene Cluster for Verticilactam and Identification of Analogues. <i>Journal of Natural Products</i> , 2020, 83, 3598-3605.	3.0	13
60	Purification and Characterization of Ferredoxinâ€“Sulfite Reductase from Turnip (<i>Brassica rapa</i>) Leaves and Comparison of Properties with Ferredoxinâ€“Sulfite Reductase from Turnip Roots. <i>Bioscience, Biotechnology and Biochemistry</i> , 1997, 61, 1486-1490.	1.3	12
61	Search for UV-Responsive Genes in Human Cells by Differential mRNA Display: Involvement of Human Ras-Related GTP-Binding Protein, Rheb, in UV Susceptibility. <i>Biochemical and Biophysical Research Communications</i> , 2000, 274, 859-864.	2.1	11
62	Control of the Stereochemical Course of [4+2] Cycloaddition during <i>trans</i> -Decalin Formation by Fsa2â€“Family Enzymes. <i>Angewandte Chemie</i> , 2018, 130, 9902-9906.	2.0	11
63	Molecular Cloning and Characterization of a Broad Substrate Terpenoid Oxidoreductase from <i>Artemisia annua</i> . <i>Plant and Cell Physiology</i> , 2010, 51, 1219-1228.	3.1	10
64	Detection of Cytochrome P450 Substrates by Using a Smallâ€“Molecule Droplet Array on an NADHâ€“Immobilized Solid Surface. <i>ChemBioChem</i> , 2011, 12, 2748-2752.	2.6	10
65	Catenulisporolides, Glycosylated Triene Macrolides from the Chemically Underexploited Actinomycete <i>Catenulispora</i> Species. <i>Organic Letters</i> , 2018, 20, 7234-7238.	4.6	10
66	Molecular Basis for Two Stereoselective Dielsâ€“Alderases that Produce Decalin Skeletons**. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 22401-22410.	13.8	10
67	Identification and Characterization of Bifunctional Drimenol Synthases of Marine Bacterial Origin. <i>ACS Chemical Biology</i> , 2022, 17, 1226-1238.	3.4	10
68	Penidioxolanes A and B, 1,3-Dioxolane Containing Azaphilone Derivatives from Marine-derived <i>Penicillium</i> sp. KCB12C078. <i>Natural Product Sciences</i> , 2015, 21, 231.	0.9	9
69	RK-270Aâ€“C, new oxindole derivatives isolated from a microbial metabolites fraction library of <i>Streptomyces</i> sp. RK85-270. <i>Journal of Antibiotics</i> , 2015, 68, 293-295.	2.0	9
70	Dihydrolucilactaene, a Potent Antimalarial Compound from <i>Fusarium</i> sp. RK97-94. <i>Journal of Natural Products</i> , 2022, 85, 63-69.	3.0	9
71	Purification and characterization of ferredoxin-sulfite reductases from leek (<i>Allium tuberosum</i>) leaves. <i>Journal of Plant Research</i> , 1996, 109, 45-52.	2.4	8
72	Effect of sulfur and nitrogen nutrition on derepression of ferredoxin-sulfite reductase in leek seedlings. <i>Journal of Plant Research</i> , 1996, 109, 363-368.	2.4	7

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73	Alkyldihydropyrones, new polyketides synthesized by a type III polyketide synthase from <i>Streptomyces reveromyceticus</i> . <i>Journal of Antibiotics</i> , 2014, 67, 819-823.	2.0	7
74	Aturanosides A and B, Glycosylated Anthraquinones with Antiangiogenic Activity from a Soil-Derived <i>Streptomyces</i> Species. <i>Journal of Natural Products</i> , 2018, 81, 2004-2009.	3.0	7
75	Creation of novel reveromycin derivatives by alcohol-added fermentation. <i>Journal of Antibiotics</i> , 2013, 66, 247-250.	2.0	6
76	Î ² -carboline biomediators induce reveromycin production in <i>Streptomyces</i> sp. SN-593. <i>Scientific Reports</i> , 2019, 9, 5802.	3.3	6
77	Ferredoxin-linked Sulfite Reductase from Turnip Roots. <i>Bioscience, Biotechnology and Biochemistry</i> , 1996, 60, 142-144.	1.3	5
78	Kinanthraquinone, a new anthraquinone carboxamide isolated from <i>Streptomyces reveromyceticus</i> SN-593-44. <i>Journal of Antibiotics</i> , 2018, 71, 480-482.	2.0	5
79	Identification of the kinanthraquinone biosynthetic gene cluster by expression of an atypical response regulator. <i>Bioscience, Biotechnology and Biochemistry</i> , 2021, 85, 714-721.	1.3	5
80	Crystal structures of a 6-dimethylallyltryptophan synthase, IptA: Insights into substrate tolerance and enhancement of prenyltransferase activity. <i>Biochemical and Biophysical Research Communications</i> , 2022, 593, 144-150.	2.1	4
81	Establishment and Characterization of GSA-1, a Human Cell Line Highly Susceptible to Apoptosis after Free-fall. <i>Journal of Radiation Research</i> , 2002, 43, S251-S255.	1.6	3
82	Characterization of Giant Modular PKSs Provides Insight into Genetic Mechanism for Structural Diversification of Aminopolyol Polyketides. <i>Angewandte Chemie</i> , 2017, 129, 1766-1771.	2.0	3
83	Aromatic butenolides produced by a soil ascomycete <i>Auxarthron</i> sp. KCB15F070 derived from a volcanic island. <i>Tetrahedron Letters</i> , 2019, 60, 151227.	1.4	3
84	RK-144171, a new benadrostin derivative produced by <i>Streptomyces</i> sp. RK88-1441. <i>Journal of Antibiotics</i> , 2017, 70, 102-104.	2.0	2
85	An integrated screening system for the selection of exemplary substrates for natural and engineered cytochrome P450s. <i>Scientific Reports</i> , 2019, 9, 18023.	3.3	2
86	Thiolactomide: A New Homocysteine Thiolactone Derivative from <i>Streptomyces</i> sp. with Neuroprotective Activity. <i>Journal of Microbiology and Biotechnology</i> , 2021, 31, 1667-1671.	2.1	2
87	Isolation of new lucilactaene derivatives from P450 monooxygenase and aldehyde dehydrogenase knockout <i>Fusarium</i> sp. RK97-94 strains and their biological activities. <i>Journal of Antibiotics</i> , 2022, , .	2.0	2
88	Increased levels of UV-induced protease activity in human UVAP-1 cells exposed to gravity-changing stress: involvement of E-64-sensitive proteases in suppression of UV mutagenicity. <i>Cell Biology International</i> , 2003, 27, 53-60.	3.0	1
89	RK-270D and E, oxindole derivatives from <i>Streptomyces</i> sp. with anti-angiogenic activity. <i>Journal of Microbiology and Biotechnology</i> , 2022, 32, 1-10.	2.1	1
90	Frontispiece: Characterization of Giant Modular PKSs Provides Insight into Genetic Mechanism for Structural Diversification of Aminopolyol Polyketides. <i>Angewandte Chemie - International Edition</i> , 2017, 56, .	13.8	0

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91	Frontispiz: Characterization of Giant Modular PKSs Provides Insight into Genetic Mechanism for Structural Diversification of Aminopolyol Polyketides. <i>Angewandte Chemie</i> , 2017, 129, .	2.0	0
92	6,9-Dihydroxytetrangulol, a novel angucyclinone antibiotic accumulated in <i>kigO</i> gene disruptant in the biosynthesis of kinanthraquinone. <i>Journal of Antibiotics</i> , 2021, 74, 593-595.	2.0	0
93	Molecular Basis for Two Stereoselective Dielsâ€Alderases that Produce Decalin Skeletons**. <i>Angewandte Chemie</i> , 2021, 133, 22575-22584.	2.0	0
94	Innentitelbild: Molecular Basis for Two Stereoselective Dielsâ€Alderases that Produce Decalin Skeletons (<i>Angew. Chem.</i> 41/2021). <i>Angewandte Chemie</i> , 2021, 133, 22258-22258.	2.0	0
95	Small Molecule Biomediator Which Enhances the Production of Secondary Metabolites in <i>Streptomyces</i>; Î²-Carbonoline (BR-1) Enhances the Production of Reveromycin. <i>Kagaku To Seibutsu</i> , 2021, 59, 176-181.	0.0	0
96	Studies on <i>Streptomyces</i> sp. SN-593: reveromycin biosynthesis, Î²-carboline biomediator activating LuxR family regulator, and construction of terpenoid biosynthetic platform. <i>Journal of Antibiotics</i> , 2022, 75, 432-444.	2.0	0