

Tadashi Eguchi

List of Publications by Year in descending order

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214
papers

4,939
citations

87888

38
h-index

168389

53
g-index

229
all docs

229
docs citations

229
times ranked

3748
citing authors

#	ARTICLE	IF	CITATIONS
1	Biosynthesis of natural products containing β^2 -amino acids. <i>Natural Product Reports</i> , 2014, 31, 1056-1073.	10.3	188
2	Metabolite profiling of plant carotenoids using the matrix-assisted laser desorption ionization time-of-flight mass spectrometry. <i>Plant Journal</i> , 2007, 49, 552-564.	5.7	126
3	A novel ether core lipid with H-shaped C80-isoprenoid hydrocarbon chain from the hyperthermophilic methanogen <i>Methanothermus fervidus</i> . <i>Lipids and Lipid Metabolism</i> , 1998, 1390, 339-345.	2.6	95
4	Squamocin, a new cytotoxic bis-tetrahydrofuran containing acetogenin from <i>Annona squamosa</i> . <i>Chemical and Pharmaceutical Bulletin</i> , 1988, 36, 4802-4806.	1.3	84
5	Total Synthesis of Archaeal 36-Membered Macrocyclic Diether Lipid. <i>Journal of Organic Chemistry</i> , 1997, 62, 1924-1933.	3.2	83
6	Butirosin-biosynthetic Gene Cluster from <i>Bacillus circulans</i> . <i>Journal of Antibiotics</i> , 2000, 53, 1158-1167.	2.0	81
7	Characterization and Mechanistic Study of a Radical SAM Dehydrogenase in the Biosynthesis of Butirosin. <i>Journal of the American Chemical Society</i> , 2007, 129, 15147-15155.	13.7	81
8	Biosynthetic genes for aminoglycoside antibiotics. <i>Journal of Antibiotics</i> , 2009, 62, 471-481.	2.0	77
9	Protein-protein interactions in polyketide synthase nonribosomal peptide synthetase hybrid assembly lines. <i>Natural Product Reports</i> , 2018, 35, 1185-1209.	10.3	73
10	Rapamycin directly activates lysosomal mucolipin TRP channels independent of mTOR. <i>PLoS Biology</i> , 2019, 17, e3000252.	5.6	70
11	Structure-based analysis of the molecular interactions between acyltransferase and acyl carrier protein in vicenistatin biosynthesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 1802-1807.	7.1	69
12	Novel terpenes generated by heterologous expression of bacterial terpene synthase genes in an engineered <i>Streptomyces</i> host. <i>Journal of Antibiotics</i> , 2015, 68, 385-394.	2.0	66
13	Membrane Properties of Archaeal Macrocyclic Diether Phospholipids. <i>Chemistry - A European Journal</i> , 2000, 6, 645-654.	3.3	62
14	A Natural Protecting Group Strategy To Carry an Amino Acid Starter Unit in the Biosynthesis of Macrolactam Polyketide Antibiotics. <i>Journal of the American Chemical Society</i> , 2011, 133, 18134-18137.	13.7	61
15	Studies on organic fluorine compounds. XXXIX. Studies on steroids. LXXIX. Synthesis of 1. α ,25-dihydroxy-26,26,26,27,27,27-hexafluorovitamin D ₃ . <i>Chemical and Pharmaceutical Bulletin</i> , 1982, 30, 4297-4303.	1.3	58
16	Enzymatic Approach to Unnatural Glycosides with Diverse Aglycon Scaffolds Using Glycosyltransferase VinC. <i>Journal of the American Chemical Society</i> , 2005, 127, 6148-6149.	13.7	58
17	Characterization of a Radical S-Adenosyl-methionine Epimerase, NeoN, in the Last Step of Neomycin B Biosynthesis. <i>Journal of the American Chemical Society</i> , 2014, 136, 13909-13915.	13.7	57
18	Effects of 1,25-dihydroxyvitamin D ₃ and its analogs on butyrate-induced differentiation of HT-29 human colonic carcinoma cells and on the reversal of the differentiated phenotype. <i>Archives of Biochemistry and Biophysics</i> , 1990, 276, 415-423.	3.0	55

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19	Total Synthesis of Archaeal 72-Membered Macrocyclic Tetraether Lipids. <i>Journal of Organic Chemistry</i> , 1998, 63, 2689-2698.	3.2	55
20	An Olefin Metathesis Approach to 36- and 72-Membered Archaeal Macrocyclic Membrane Lipids. <i>Journal of Organic Chemistry</i> , 1998, 63, 4741-4745.	3.2	54
21	Cloning, Sequencing, and Functional Analysis of the Biosynthetic Gene Cluster of Macrolactam Antibiotic Vicenistatin in <i>Streptomyces halstedii</i> . <i>Chemistry and Biology</i> , 2004, 11, 79-86.	6.0	54
22	Aglycon switch approach toward unnatural glycosides from natural glycoside with glycosyltransferase VinC. <i>Tetrahedron Letters</i> , 2005, 46, 6187-6190.	1.4	52
23	Cloning of the Pactamycin Biosynthetic Gene Cluster and Characterization of a Crucial Glycosyltransferase Prior to a Unique Cyclopentane Ring Formation. <i>Journal of Antibiotics</i> , 2007, 60, 492-503.	2.0	51
24	Genome Mining Reveals Two Novel Bacterial Sesquiterpene Cyclases: (âˆ™)â€œGermacradienâ€œ4â€œol and (âˆ™)â€œBisabolol Synthases from <i>Streptomyces citricolor</i> . <i>ChemBioChem</i> , 2011, 12, 2271-2275.	2.6	51
25	Mechanistic Study on the Reaction of a Radical SAM Dehydrogenase BtrN by Electron Paramagnetic Resonance Spectroscopy. <i>Biochemistry</i> , 2008, 47, 8950-8960.	2.5	47
26	Isolation and Characterization of a New Pyrano(4',3':6,7)naphtho(1,2-b)xanthene Antibiotic FD-594. <i>Journal of Antibiotics</i> , 1998, 51, 282-287.	2.0	46
27	The Crystal Structure of the Adenylation Enzyme VinN Reveals a Unique Î²-Amino Acid Recognition Mechanism. <i>Journal of Biological Chemistry</i> , 2014, 289, 31448-31457.	3.4	46
28	Genome mining of the sordarin biosynthetic gene cluster from <i>Sordaria araneosa</i> Cain ATCC 36386: characterization of cycloaraneosene synthase and GDP-6-deoxyaltrose transferase. <i>Journal of Antibiotics</i> , 2016, 69, 541-548.	2.0	46
29	Substrate Flexibility of Vicenisaminyltransferase VinC Involved in the Biosynthesis of Vicenistatin. <i>Journal of the American Chemical Society</i> , 2007, 129, 5102-5107.	13.7	45
30	Aminoglycoside Antibiotics: New Insights into the Biosynthetic Machinery of Old Drugs. <i>Chemical Record</i> , 2016, 16, 4-18.	5.8	45
31	Identification of L-Glutamine: 2-Deoxy-scylo-inosose Aminotransferase Required for the Biosynthesis of Butirosin in <i>Bacillus circulans</i> . <i>Journal of Antibiotics</i> , 2002, 55, 707-714.	2.0	44
32	Biosynthesis of Archaeal Membrane Lipids: Digeranylgeranyl glycerophospholipid Reductase of the Thermoacidophilic Archaeon <i>Thermoplasma acidophilum</i> . <i>Journal of Biochemistry</i> , 2006, 139, 1073-1081.	1.7	44
33	Structural basis of the nonribosomal codes for nonproteinogenic amino acid selective adenylation enzymes in the biosynthesis of natural products. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2019, 46, 515-536.	3.0	44
34	Biosynthesis of 2-Deoxystreptamine by Three Crucial Enzymes in <i>Streptomyces fradiae</i> NBRC 12773. <i>Journal of Antibiotics</i> , 2005, 58, 766-774.	2.0	43
35	Unique Solvent-Dependent Atropisomerism of a Novel Cytotoxic Naphthoxanthene Antibiotic FD-594. <i>Journal of Organic Chemistry</i> , 1999, 64, 5371-5376.	3.2	42
36	A Unique Amino Transfer Mechanism for Constructing the Î²-Amino Fatty Acid Starter Unit in the Biosynthesis of the Macrolactam Antibiotic Cremimycin. <i>ChemBioChem</i> , 2013, 14, 1998-2006.	2.6	42

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37	Methylcobalamin-Dependent Radical SAM C-Methyltransferase Fom3 Recognizes Cytidyl-2-hydroxyethylphosphonate and Catalyzes the Nonstereoselective C-Methylation in Fosfomycin Biosynthesis. <i>Biochemistry</i> , 2017, 56, 3519-3522.	2.5	41
38	The overman rearrangement on a diacetone-D-glucose template: kinetic and theoretical studies on the chirality transcription. <i>Tetrahedron</i> , 1993, 49, 4527-4540.	1.9	40
39	Structural Basis of Protein-Protein Interactions between a <i>trans</i> -Acting Acyltransferase and Acyl Carrier Protein in Polyketide Disorazole Biosynthesis. <i>Journal of the American Chemical Society</i> , 2018, 140, 7970-7978.	13.7	40
40	36-Membered Macrocyclic Diether Lipid is Advantageous for Archaea to Thrive under the Extreme Thermal Environments. <i>Bulletin of the Chemical Society of Japan</i> , 2001, 74, 347-356.	3.2	38
41	Identification of the incednine biosynthetic gene cluster: characterization of novel β -glutamate- β -decarboxylase IdnL3. <i>Journal of Antibiotics</i> , 2013, 66, 691-699.	2.0	38
42	Structure and Biosynthesis of FD-594; a New Antitumor Antibiotic.. <i>Journal of Antibiotics</i> , 1998, 51, 288-295.	2.0	37
43	A New Family of Glucose-1-phosphate/Glucosamine-1-phosphate Nucleotidyltransferase in the Biosynthetic Pathways for Antibiotics. <i>Journal of the American Chemical Society</i> , 2005, 127, 1711-1718.	13.7	37
44	Chapter 20 Biosynthetic Enzymes for the Aminoglycosides Butirosin and Neomycin. <i>Methods in Enzymology</i> , 2009, 459, 493-519.	1.0	37
45	Insights into Substrate Specificity of Geranylgeranyl Reductases Revealed by the Structure of Digeranylgeranyl glycerophospholipid Reductase, an Essential Enzyme in the Biosynthesis of Archaeal Membrane Lipids. <i>Journal of Molecular Biology</i> , 2010, 404, 403-417.	4.2	36
46	Genome Mining of the Hitachimycin Biosynthetic Gene Cluster: Involvement of a Phenylalanine-2,3-aminomutase in Biosynthesis. <i>ChemBioChem</i> , 2015, 16, 909-914.	2.6	36
47	23,25-Dihydroxyvitamin D3: a natural precursor in the biosynthesis of 25-hydroxyvitamin D3-26,23-lactone.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1981, 78, 4805-4808.	7.1	35
48	Cloning and Characterization of the Biosynthetic Gene Cluster of 16-Membered Macrolide Antibiotic FD-891: Involvement of a Dual Functional Cytochrome P450 Monooxygenase Catalyzing Epoxidation and Hydroxylation. <i>ChemBioChem</i> , 2010, 11, 1574-1582.	2.6	35
49	Stereochemical Recognition of Doubly Functional Aminotransferase in 2-Deoxystreptamine Biosynthesis. <i>Journal of the American Chemical Society</i> , 2005, 127, 5869-5874.	13.7	33
50	Mechanisms of β -amino acid incorporation in polyketide macrolactam biosynthesis. <i>Current Opinion in Chemical Biology</i> , 2016, 35, 58-64.	6.1	33
51	Enantioselective total synthesis of vicanistatin, a novel 20-membered macrocyclic lactam antitumor antibiotic. <i>Journal of the Chemical Society, Perkin Transactions 1</i> , 2002, , 949-958.	1.3	32
52	Inhibition of type 2 isopentenyl diphosphate isomerase from <i>Methanocaldococcus jannaschii</i> by a mechanism-based inhibitor of type 1 isopentenyl diphosphate isomerase. <i>Bioorganic and Medicinal Chemistry</i> , 2006, 14, 6555-6559.	3.0	31
53	An expeditious chemo-enzymatic route from glucose to catechol by the use of 2-deoxy-scylo-inosose synthase. <i>Tetrahedron Letters</i> , 2000, 41, 1935-1938.	1.4	29
54	Extended Sequence and Functional Analysis of the Butirosin Biosynthetic Gene Cluster in <i>Bacillus circulans</i> SANK 72073. <i>Journal of Antibiotics</i> , 2005, 58, 373-379.	2.0	29

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55	26,27-Diethyl-1. ALPHA., 25-dihydroxyvitamin D3 and 24,24-difluoro-24-homo-1. ALPHA., 25-dihydroxyvitamin D3: Highly potent inducer for differentiation of human leukemia cells HL-60.. Chemical and Pharmaceutical Bulletin, 1987, 35, 4362-4365.	1.3	28
56	Remarkable reversal of stereoselectivity in Wittig-type olefinations of Î±-fluorinated alkyl aryl ketones. Tetrahedron Letters, 1992, 33, 5545-5546.	1.4	28
57	Importance of Specific Hydrogen-Bond Donor-âAcceptor Interactions for the Key Carbocycle-Forming Reaction Catalyzed by 2-Deoxy-scyllo-inosose Synthase in the Biosynthesis of 2-Deoxystreptamine-Containing Aminocyclitol Antibiotics. Journal of Organic Chemistry, 2002, 67, 3979-3984.	3.2	28
58	Active Site Mapping of 2-Deoxy-scyllo-inosose Synthase, the Key Starter Enzyme for the Biosynthesis of 2-Deoxystreptamine. Mechanism-Based Inhibition and Identification of Lysine-141 as the Entrapped Nucleophile. Journal of Organic Chemistry, 2004, 69, 593-600.	3.2	28
59	The first synthesis of an archaebacterial 36-membered macrocyclic diether lipid. Journal of the Chemical Society Chemical Communications, 1994, , 137.	2.0	27
60	Multigram Synthesis of Mevalonolactone-d9 and Its Application to Stereochemical Analysis by 1H NMR of the Saturation Reaction in the Biosynthesis of the 2,3-Di-O-phytanyl-sn-glycerol Core of the Archaean Membrane Lipid. Journal of the American Chemical Society, 1998, 120, 5427-5433.	13.7	27
61	Versatile route to 2,6-dideoxyamino sugars from non-sugar materials: Syntheses of vicenisamine and kedarosamine. Journal of the Chemical Society, Perkin Transactions 1, 2001, , 569-577.	1.3	27
62	The Last Step of Kanamycin Biosynthesis: Unique Deamination Reaction Catalyzed by the Î±-Ketoglutarate-Dependent Nonheme Iron Dioxygenase KanJ and the NADPH-Dependent Reductase KanK. Angewandte Chemie - International Edition, 2012, 51, 3428-3431.	13.8	27
63	Direct closure of a 36-membered ring using the McMurry coupling: Synthetic studies on the macrocyclic archaebacterial membrane lipids. Tetrahedron Letters, 1993, 34, 2175-2178.	1.4	26
64	Importance of the isopropylidene terminal of geranylgeranyl group for the formation of tetraether lipid in methanogenic archaea. Tetrahedron Letters, 2003, 44, 3275-3279.	1.4	26
65	The Complete Biosynthetic Gene Cluster of the 28-Membered Polyketide Macrolactones, Halstoctacosanolides, from Streptomyces halstedii HC34. Journal of Antibiotics, 2006, 59, 44-52.	2.0	26
66	Involvement of Two Distinct Acetylglucosaminyltransferases and a Dual-Function Deacetylase in Neomycin Biosynthesis. ChemBioChem, 2008, 9, 865-869.	2.6	26
67	Conformational analysis of 1,25-dihydroxyvitamin D3 by nuclear magnetic resonance. Bioorganic Chemistry, 1990, 18, 19-29.	4.1	25
68	Squamostatin-A: Unprecedented bis-tetrahydrofuran acetogenin from Annona squamosa. Tetrahedron Letters, 1990, 31, 535-538.	1.4	25
69	Unique O-ribosylation in the biosynthesis of butirosin. Bioorganic and Medicinal Chemistry, 2007, 15, 4360-4368.	3.0	25
70	Enantiocontrol by intrinsic antiparallel double repulsion on diacetone-d-glucose template.. Tetrahedron Letters, 1991, 32, 5801-5804.	1.4	24
71	Absolute stereochemistry of vicenistatin, a novel 20-membered macrocyclic lactam antitumor antibiotic. Tetrahedron Letters, 1998, 39, 3181-3184.	1.4	24
72	New Approach to Multiply Deuterated Isoprenoids Using Triply Engineered Escherichia coli and Its Potential as a Tool for Mechanistic Enzymology. Journal of the American Chemical Society, 2001, 123, 1238-1239.	13.7	24

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73	Stereostructure of a Novel Cytotoxic 18-Membered Macrolactone Antibiotic FD-891. <i>Organic Letters</i> , 2002, 4, 3383-3386.	4.6	24
74	Involvement of Glutamate Mutase in the Biosynthesis of the Unique Starter Unit of the Macrolactam Polyketide Antibiotic Vicenistatin. <i>Journal of Antibiotics</i> , 2005, 58, 468-472.	2.0	24
75	Cloning of the biosynthetic gene cluster for naphthoxanthene antibiotic FD-594 from <i>Streptomyces</i> sp. TA-0256. <i>Journal of Antibiotics</i> , 2011, 64, 123-132.	2.0	24
76	A Unique Pathway for the 3-Aminobutyrate Starter Unit from L-Glutamate through β^2 -Glutamate during Biosynthesis of the 24-Membered Macrolactam Antibiotic, Incednine. <i>Organic Letters</i> , 2012, 14, 4591-4593.	4.6	24
77	C-Methylation Catalyzed by Fom3, a Cobalamin-Dependent Radical S-adenosyl-methionine Enzyme in Fosfomycin Biosynthesis, Proceeds with Inversion of Configuration. <i>Biochemistry</i> , 2018, 57, 4963-4966.	2.5	24
78	Studies on the structure and stereochemistry of cytotoxic furanonaphthoquinones from <i>Tabebuia impetiginosa</i> : 5- and 8-hydroxy-2-(1-hydroxyethyl)naphtho[2,3-b]furan-4,9-diones. <i>Journal of the Chemical Society Perkin Transactions 1</i> , 1991, , 2323.	0.9	23
79	Giant Vesicles from 72-Membered Macrocyclic ArchÅ al Phospholipid Analogues: Initiation of Vesicle Formation by Molecular Recognition between Membrane Components. <i>Chemistry - A European Journal</i> , 2000, 6, 3351-3358.	3.3	23
80	Identification of a gene cluster for telomestatin biosynthesis and heterologous expression using a specific promoter in a clean host. <i>Scientific Reports</i> , 2017, 7, 3382.	3.3	23
81	Characterization of Radical SAM Adenosylhopane Synthase, HpnH, which Catalyzes the 5 β^2 β -deoxyadenosyl Radical Addition to Diploptene in the Biosynthesis of C 35 Bacteriohopanepolyols. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 237-241.	13.8	23
82	Synthesis and determination of configuration of natural 25-hydroxyvitamin D ₃ 26,23-lactone. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1981, 78, 6579-6583.	7.1	22
83	Synthetic Studies of Archaeal Macrocyclic Tetraether Lipids: Practical Synthesis of 72-Membered Tetraether Model Compounds. <i>Bulletin of the Chemical Society of Japan</i> , 1997, 70, 2545-2554.	3.2	22
84	A Novel Fungal Metabolite NG-061 Enhances and Mimics Neurotrophic Effect of Nerve Growth Factor (NGF) on Neurite Outgrowth in PC12 Cells. <i>Journal of Antibiotics</i> , 1999, 52, 224-230.	2.0	22
85	Structure of 2 β -deoxy- β -scyllo- β -inosose synthase, a key enzyme in the biosynthesis of 2 β -deoxystreptamine-containing aminoglycoside antibiotics, in complex with a mechanism-based inhibitor and NAD ⁺ . <i>Proteins: Structure, Function and Bioinformatics</i> , 2008, 70, 517-527.	2.6	22
86	A Single PLP-Dependent Enzyme PctV Catalyzes the Transformation of 3 β -dehydroshikimate into 3 β -aminobenzoate in the Biosynthesis of Pactamycin. <i>ChemBioChem</i> , 2013, 14, 1198-1203.	2.6	22
87	Remote asymmetric induction observed in the alkylation of propionate attached to a carbohydrate template. <i>Tetrahedron Letters</i> , 1996, 37, 2061-2062.	1.4	21
88	A New Approach for the Investigation of Isoprenoid Biosynthesis Featuring Pathway Switching, Deuterium Hyperlabeling, and ¹ H NMR Spectroscopy. The Reaction Mechanism of a Novel <i>Streptomyces</i> Diterpene Cyclase. <i>Journal of Organic Chemistry</i> , 2003, 68, 5433-5438.	3.2	21
89	Biochemical characterization and structural insight into aliphatic β^2 -amino acid adenylation enzymes IdnL1 and CmiS6. <i>Proteins: Structure, Function and Bioinformatics</i> , 2017, 85, 1238-1247.	2.6	21
90	Synthesis of 26,27-dialkyl analogues of 1. α ,25-dihydroxyvitamin D ₃ . <i>Chemical and Pharmaceutical Bulletin</i> , 1988, 36, 2303-2311.	1.3	20

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91	Biosynthetic Pathway of Macrolactam Polyketide Glycoside Antitumor Antibiotic Vicenistatins. <i>Tetrahedron</i> , 2000, 56, 8281-8286.	1.9	20
92	Amino acid starter unit in the biosynthesis of macrolactam polyketide antitumor antibiotic vicenistatin. <i>Tetrahedron</i> , 2001, 57, 8237-8242.	1.9	20
93	Structure Revision of FD-891, a 16-Membered Macrolide Antibiotic. <i>Journal of Antibiotics</i> , 2004, 57, 156-157.	2.0	20
94	Chemical Mechanism of Homoisocitrate Dehydrogenase from <i>Saccharomyces cerevisiae</i> . <i>Biochemistry</i> , 2008, 47, 4169-4180.	2.5	20
95	Identification of the Fluvirucin B2 (Sch 38518) Biosynthetic Gene Cluster from <i>Actinomadura fulva</i> subsp. <i>indica</i> ATCC 53714: substrate Specificity of the β^2 -Amino Acid Selective Adenylating Enzyme FlvN. <i>Bioscience, Biotechnology and Biochemistry</i> , 2016, 80, 935-941.	1.3	20
96	Structural analysis of the dual-function thioesterase SAV606 unravels the mechanism of Michael addition of glycine to an α,β -unsaturated thioester. <i>Journal of Biological Chemistry</i> , 2017, 292, 10926-10937.	3.4	20
97	Mechanistic and stereochemical studies on Ferrier reaction by means of chirally deuterated glucose. <i>Tetrahedron</i> , 1994, 50, 4125-4136.	1.9	19
98	Isolation and Structure Elucidation of Vicenistatin M, and Importance of the Vicenisamine Aminosugar for Exerting Cytotoxicity of Vicenistatin. <i>Journal of Antibiotics</i> , 2001, 54, 211-219.	2.0	19
99	12,15-Dihydroxy λ -8(17),13-Dien-19-Oic acid from <i>Guizotia scabra</i> . <i>Phytochemistry</i> , 1990, 29, 319-321.	2.9	18
100	Unusual double-bond migration as a plausible key reaction in the biosynthesis of the isoprenoidal membrane lipids of methanogenic archaea. <i>Chemical Communications</i> , 2000, , 1545-1546.	4.1	18
101	A new method for enzymatic preparation of isopentenyladenine-type and trans -zeatin-type cytokinins with radioisotope-labeling. <i>Journal of Plant Research</i> , 2003, 116, 259-263.	2.4	17
102	Genome-inspired search for new antibiotics. Isolation and structure determination of new 28-membered polyketide macrolactones, halstoctacosanolides A and B, from <i>Streptomyces halstedii</i> HC34. <i>Tetrahedron</i> , 2004, 60, 3999-4005.	1.9	17
103	Structural Characterization of Complex of Adenylation Domain and Carrier Protein by Using Pantetheine Cross-Linking Probe. <i>ACS Chemical Biology</i> , 2020, 15, 1808-1812.	3.4	17
104	Synthesis and determination of the configuration of 23,25-dihydroxy-vitamin D3; a new metabolite of vitamin D3; X-ray crystal structure of a 3,23,25-triol precursor. <i>Journal of the Chemical Society Chemical Communications</i> , 1981, , 1157.	2.0	16
105	In Vitro Biosynthesis of Ether-Type Glycolipids in the Methanoarchaeon <i>Methanothermobacter thermautotrophicus</i> . <i>Journal of Bacteriology</i> , 2007, 189, 4053-4061.	2.2	16
106	Fosfomycin Biosynthesis via Transient Cytidylylation of 2-Hydroxyethylphosphonate by the Bifunctional Fom1 Enzyme. <i>ACS Chemical Biology</i> , 2017, 12, 2209-2215.	3.4	16
107	Synthesis and biological activities of 22-hydroxy and 22-methoxy derivatives of $\beta^2,25$ -dihydroxyvitamin D3: Importance of side chain conformation for biological activities. <i>Bioorganic Chemistry</i> , 1989, 17, 294-307.	4.1	15
108	NADH mimics on diacetone-d-glucose: Stereoselective biomimetic reduction of benzoylformate and interpretation of chirality transfer deduced by molecular orbital approach. <i>Tetrahedron</i> , 1995, 51, 6459-6474.	1.9	15

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109	Non-fatty acyl polyketide starter in the biosynthesis of vicenistatin, an antitumor macrolactam antibiotic. <i>Tetrahedron Letters</i> , 1998, 39, 3185-3188.	1.4	15
110	Highly Thermostable Liposome from 72-Membered Macrocylic Tetraether Lipid: Importance of 72-Membered Lipid for Archaea to Thrive under Hyperthermal Environments. <i>Chemistry Letters</i> , 2001, 30, 440-441.	1.3	15
111	Substrate specificity of radical S-adenosyl-l-methionine dehydratase AprD4 and its partner reductase AprD3 in the C3 ^α -deoxygenation of aminoglycoside antibiotics. <i>Journal of Antibiotics</i> , 2017, 70, 423-428.	2.0	15
112	An Engineered Aryl Acid Adenylation Domain with an Enlarged Substrate Binding Pocket. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 6906-6910.	13.8	15
113	Fern-9(11)-en-25-oic acid, a triterpene from <i>Adiantum venustum</i> . <i>Phytochemistry</i> , 1991, 30, 3478-3480.	2.9	14
114	Diacetone-glucose architecture as a chirality template. Part 9.1 Enantioselective synthesis of (R)-mevalonolactone and (R)-[2H ₉]mevalonolactone on carbohydrate template. <i>Journal of the Chemical Society Perkin Transactions 1</i> , 1997, , 891-896.	0.9	14
115	Synthesis of macrocyclic phosphates as models of archa eal membrane lipids. Monolayer and bilayer studies. <i>New Journal of Chemistry</i> , 1998, 22, 63-69.	2.8	14
116	Macrolactam formation catalyzed by the thioesterase domain of vicenistatin polyketide synthase. <i>Tetrahedron Letters</i> , 2006, 47, 1529-1532.	1.4	14
117	Enzymatic activity of a glycosyltransferase KanM2 encoded in the kanamycin biosynthetic gene cluster. <i>Journal of Antibiotics</i> , 2009, 62, 707-710.	2.0	14
118	Synthesis and Structure-Activity Relationship of Vicenistatin, a Cytotoxic 20-Membered Macrolactam Glycoside. <i>Chemistry - an Asian Journal</i> , 2012, 7, 2872-2881.	3.3	14
119	Substrate Recognition by a Dual-Function P450 Monooxygenase GfsF Involved in FD ⁸⁹¹ Biosynthesis. <i>ChemBioChem</i> , 2017, 18, 2179-2187.	2.6	14
120	Synthesis of DL-threo-3-(1-fluoro-1-methylethyl)- and DL-threo-3-(1,1-difluoroethyl)malic acids. Mechanistic studies of 3-isopropylmalate dehydrogenase. <i>Journal of the Chemical Society Perkin Transactions 1</i> , 1995, , 1905.	0.9	13
121	First Identification of Streptomyces Genes Involved in the Biosynthesis of 2-Deoxystreptamine-containing Aminoglycoside Antibiotics. Genetic and Evolutionary Analysis of L-Glutamine: 2-deoxy-scylo-inosose Aminotransferase Genes.. <i>Journal of Antibiotics</i> , 2002, 55, 1016-1018.	2.0	13
122	Reaction Stereochemistry of 2-Deoxy-scylo-inosose Synthase, the Key Enzyme in the Biosynthesis of 2-Deoxystreptamine. <i>Chemistry Letters</i> , 2003, 32, 438-439.	1.3	13
123	Stereospecificity of hydride transfer in NAD ⁺ -catalyzed 2-deoxy-scylo-inosose synthase, the key enzyme in the biosynthesis of 2-deoxystreptamine-containing aminocyclitol antibiotics. <i>Bioorganic Chemistry</i> , 2005, 33, 82-89.	4.1	13
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