Taifo Mahmud

List of Publications by Year
in descending order

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107 papers	4,501 citations	117625 34 h-index	123424 61 g-index
117 all docs	117 docs citations	117 times ranked	4579 citing authors

#	Article	IF	Citations
1	Minimum Information about a Biosynthetic Gene cluster. Nature Chemical Biology, 2015, 11, 625-631.	8.0	715
2	Complete genome sequence of the myxobacterium Sorangium cellulosum. Nature Biotechnology, 2007, 25, 1281-1289.	17.5	354
3	The C7N aminocyclitol family of natural products. Natural Product Reports, 2003, 20, 137-166.	10.3	153
4	Biosynthesis of aminocyclitol-aminoglycoside antibiotics and related compounds. Natural Product Reports, 2007, 24, 358-392.	10.3	120
5	A Novel Type of Geosmin Biosynthesis in Myxobacteria. Journal of Organic Chemistry, 2005, 70, 5174-5182.	3.2	118
6	Nonribosomal Peptide Biosynthesis: Point Mutations and Module Skipping Lead to Chemical Diversity. Angewandte Chemie - International Edition, 2006, 45, 2296-2301.	13.8	96
7	Functional Analysis of the Validamycin Biosynthetic Gene Cluster and Engineered Production of Validoxylamine A. Chemistry and Biology, 2006, 13, 387-397.	6.0	92
8	Melithiazol Biosynthesis. Chemistry and Biology, 2003, 10, 939-952.	6.0	82
9	Deciphering Pactamycin Biosynthesis and Engineered Production of New Pactamycin Analogues. ChemBioChem, 2009, 10, 2253-2265.	2.6	77
10	De novo synthesis of a sunscreen compound in vertebrates. ELife, 2015, 4, .	6.0	71
11	Gene Cluster Responsible for Validamycin Biosynthesis in Streptomyces hygroscopicus subsp. jinggangensis 5008. Applied and Environmental Microbiology, 2005, 71, 5066-5076.	3.1	70
12	Biosynthetic Studies and Genetic Engineering of Pactamycin Analogs with Improved Selectivity toward Malarial Parasites. Chemistry and Biology, 2011, 18, 425-431.	6.0	69
13	The AcbC Protein from Actinoplanes Species Is a C7-cyclitol Synthase Related to 3-Dehydroquinate Synthases and Is Involved in the Biosynthesis of the Î±-Glucosidase Inhibitor Acarbose. Journal of Biological Chemistry, 1999, 274, 10889-10896.	3.4	68
14	Identification of tailoring genes involved in the modification of the polyketide backbone of rifamycin B by Amycolatopsis mediterranei S699. Microbiology (United Kingdom), 2005, 151, 2515-2528.	1.8	62
15	Biosynthetic Studies on the Î±-Glucosidase Inhibitor Acarbose inActinoplanessp.:Â 2-epi-5-epi-Valiolone Is the Direct Precursor of the Valienamine Moiety. Journal of the American Chemical Society, 1999, 121, 6973-6983.	13.7	61
16	Shared Biosynthesis of the Saliniketals and Rifamycins in Salinispora arenicola is Controlled by the sare1259-Encoded Cytochrome P450. Journal of the American Chemical Society, 2010, 132, 12757-12765.	13.7	60
17	A Novel Biosynthetic Pathway Providing Precursors for Fatty Acid Biosynthesis and Secondary Metabolite Formation in Myxobacteria. Journal of Biological Chemistry, 2002, 277, 32768-32774.	3.4	56
18	Novel Violet Pigment, Nostocine A, an Extracellular Metabolite from Cyanobacterium Nostoc spongiaeforme. Heterocycles, 1996, 43, 1513.	0.7	54

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19	Analysis of Genome Sequences from Plant Pathogenic Rhodococcus Reveals Genetic Novelties in Virulence Loci. PLoS ONE, 2014, 9, e101996.	2.5	54
20	Biosynthesis of the Validamycins:Â Identification of Intermediates in the Biosynthesis of Validamycin A byStreptomyceshygroscopicusvar.limoneus. Journal of the American Chemical Society, 2001, 123, 2733-2742.	13.7	51
21	Indonesian Medicinal Plants. XIV. Characterization of 3'-O-Caffeoylsweroside, a New Secoiridoid Glucoside, and Kelampayosides A and B, Two New Phenolic Apioglucosides, from the Bark of Anthocephalus chinensis(Rubiaceae).. Chemical and Pharmaceutical Bulletin, 1996, 44, 1162-1167.	1.3	50
22	Indonesian Medicinal Plants. VIII. Chemical Structures of Three New Triterpenoids, Bruceajavanin A, Dihydrobruceajavanin A, and Bruceajavanin B, and a New Alkaloidal Glycoside, Bruceacanthinoside, from the Stems of Brucea javanica (Simaroubaceae).. Chemical and Pharmaceutical Bulletin, 1994, 42, 1416-1421.	1.3	47
23	Identification of Asm19 as an Acyltransferase Attaching the Biologically Essential Ester Side Chain of Ansamitocins UsingN-Desmethyl-4,5-desepoxymaytansinol, Not Maytansinol, as Its Substrate. Journal of the American Chemical Society, 2002, 124, 6544-6545.	13.7	45
24	Characterization of the Early Stage Aminoshikimate Pathway in the Formation of 3-Amino-5-hydroxybenzoic Acid:â€‰ The RifN Protein Specifically Converts Kanosamine into Kanosamine 6-Phosphate. Journal of the American Chemical Society, 2002, 124, 10644-10645.	13.7	44
25	Indonesian Medicinal Plants. XVII. Characterization of Quassinoids from the Stems of Quassia indica.. Chemical and Pharmaceutical Bulletin, 1996, 44, 2009-2014.	1.3	41
26	Occurrence and non-detectability of maytansinoids in individual plants of the genera Maytenus and Putterlickia. Phytochemistry, 2003, 62, 377-387.	2.9	41
27	A Comparative Analysis of the Sugar Phosphate Cyclase Superfamily Involved in Primary and Secondary Metabolism. ChemBioChem, 2007, 8, 239-248.	2.6	41
28	Indonesian Medicinal Plants. XXI. Inhibitors of Na+/H+ Exchanger from the Bark of Erythrina variegata and the Roots of Maclura cochinchinensis.. Chemical and Pharmaceutical Bulletin, 1997, 45, 1615-1619.	1.3	40
29	Genetic Insights into Pyralomicin Biosynthesis in Nonomuraea spiralis IMC A-0156. Journal of Natural Products, 2013, 76, 939-946.	3.0	40
30	Modification of Rifamycin Polyketide Backbone Leads to Improved Drug Activity against Rifampicin-resistant Mycobacterium tuberculosis. Journal of Biological Chemistry, 2014, 289, 21142-21152.	3.4	40
31	Evolutionary Divergence of Sedoheptulose 7-Phosphate Cyclases Leads to Several Distinct Cyclic Products. Journal of the American Chemical Society, 2012, 134, 12219-12229.	13.7	39
32	Mutasynthesis of Fluorinated Pactamycin Analogues and Their Antimalarial Activity. Organic Letters, 2013, 15, 1678-1681.	4.6	38
33	Biosynthesis of Unusual Aminocyclitol-Containing Natural Products. Journal of Natural Products, 2007, 70, 1384-1391.	3.0	37
34	Limazepines Aâ^'F, Pyrrolo[1,4]benzodiazepine Antibiotics from an Indonesian Micrococcus sp.. Journal of Natural Products, 2009, 72, 690-695.	3.0	37
35	3-Ketoacyl-ACP synthase (KAS) III homologues and their roles in natural product biosynthesis. MedChemComm, 2019, 10, 1517-1530.	3.4	37
36	Marine Natural Products. XXXVI. Biologically Active Polyacetylenes, Adociacetylenes A, B, C, and D, from an Okinawan Marine Sponge of Adocia sp.. Chemical and Pharmaceutical Bulletin, 1996, 44, 720-724.	1.3	35

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37	A Biosynthetic Pathway to Isovaleryl-CoA in Myxobacteria: The Involvement of the Mevalonate Pathway. ChemBioChem, 2005, 6, 322-330.	2.6	35
38	The absolute stereostructures of the polyacetylenic constituents of Ginseng Radix Rubra. Tetrahedron, 1997, 53, 15691-15700.	1.9	34
39	The biosynthesis of acarbose and validamycin. Chemical Record, 2001, 1, 300-310.	5.8	34
40	Progress in aminocyclitol biosynthesis. Current Opinion in Chemical Biology, 2009, 13, 161-170.	6.1	34
41	A Highly Promiscuous ÃŸ-Ketoacyl-ACP Synthase (KAS) III-like Protein Is Involved in Pactamycin Biosynthesis. ACS Chemical Biology, 2017, 12, 362-366.	3.4	34
42	ValC, a New Type of C7-Cyclitol Kinase Involved in the Biosynthesis of the Antifungal Agent Validamycin A. ChemBioChem, 2007, 8, 632-641.	2.6	33
43	Mutasynthesisâ€Derived Myxalamids and Origin of the Isobutyrylâ€CoA Starter Unit of Myxalamid B. ChemBioChem, 2007, 8, 2139-2144.	2.6	33
44	<scp>l</scp>-Tryptophan Induces a Marine-Derived Fusarium sp. to Produce Indole Alkaloids with Activity against the Zika Virus. Journal of Natural Products, 2020, 83, 3372-3380.	3.0	32
45	Potential Antidiabetic Fumiquinazoline Alkaloids from the Marine-Derived Fungus Scedosporium apiospermum F41-1. Journal of Natural Products, 2020, 83, 1082-1091.	3.0	32
46	Novel Pactamycin Analogs Induce p53 Dependent Cell-Cycle Arrest at S-Phase in Human Head and Neck Squamous Cell Carcinoma (HNSCC) Cells. PLoS ONE, 2015, 10, e0125322.	2.5	30
47	Angucyclinones from an Indonesian Streptomyces sp.. Journal of Natural Products, 2008, 71, 61-65.	3.0	29
48	Identification of Elaiophylin Skeletal Variants from the Indonesian Streptomyces sp. ICBB 9297. Journal of Natural Products, 2015, 78, 2768-2775.	3.0	29
49	Eremophilane sesquiterpenes from Hawaiian endophytic fungus Chaetoconis sp. FT087. Phytochemistry, 2016, 126, 41-46.	2.9	29
50	Indonesian Medicinal Plants. XIII. Chemical Structures of Caesaldekarins c, d, and e, Three Additional Cassane-Type Furanoditerpenes from the Roots of Caesalpinia major(Fabaceae). Several Interesting Reaction Products of Caesaldekarin a Provided by N-Bromosuccinimide Treatment.. Chemical and Pharmaceutical Bulletin, 1996, 44, 1157-1161.	1.3	27
51	Pseudoglycosyltransferase Catalyzes Nonglycosidic Câ€“N Coupling in Validamycin A Biosynthesis. Journal of the American Chemical Society, 2011, 133, 12124-12135.	13.7	27
52	Biosynthetic studies on the Î±-glucosidase inhibitor acarbose: the chemical synthesis of dTDP-4-amino-4,6-dideoxy-Î±-d-glucose. Carbohydrate Research, 2002, 337, 297-304.	2.3	26
53	Isolation and characterization of 27-O-demethylrifamycin SV methyltransferase provides new insights into the post-PKS modification steps during the biosynthesis of the antitubercular drug rifamycin B by Amycolatopsis mediterranei S699. Archives of Biochemistry and Biophysics, 2003, 411, 277-288.	3.0	26
54	Rearranged and Unrearranged Angucyclinones from Indonesian Streptomyces spp.. Journal of Antibiotics, 2008, 61, 449-456.	2.0	26

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55	Biosynthetic Gene Cluster of Cetoniacytone A, an Unusual Aminocyclitol from the Endosymbiotic Bacterium Actinomyces sp. Lu 9419. ChemBioChem, 2009, 10, 304-314.	2.6	26
56	Alternative Epimerization in C7N-Aminocyclitol Biosynthesis Is Catalyzed by ValD, A Large Protein of the Vicinal Oxygen Chelate Superfamily. Chemistry and Biology, 2009, 16, 567-576.	6.0	25
57	Interrogating the Tailoring Steps of Pactamycin Biosynthesis and Accessing New Pactamycin Analogues. ChemBioChem, 2016, 17, 1585-1588.	2.6	24
58	Indonesian Medicinal Plants. VII. Seven New Clerodane-Type Diterpenoids, Peronemins A₂, A₃, B₁, B₂, B₃, C₁, and D₁, from the Leaves of Peronema canescens (Verbenaceae). Chemical and Pharmaceutical Bulletin, 1994, 42, 1050-1055.	1.3	23
59	Biosynthesis of the Cyclitol Moiety of Pyralomicin 1a in Nonomuraea spiralis MI178-34F18.. Journal of Antibiotics, 2002, 55, 578-584.	2.0	23
60	Nucleotidylation of unsaturated carbasugar in validamycin biosynthesis. Organic and Biomolecular Chemistry, 2011, 9, 438-449.	2.8	23
61	Indonesian Medicinal Plants. XVIII. Kompasinol A, a New Stilbeno-Phenylpropanoid from the Bark of Koompassia malaccensis (Fabaceae).. Chemical and Pharmaceutical Bulletin, 1996, 44, 2249-2253.	1.3	21
62	Synthesis of 5-epi-[6-2H2]Valiolone and Stereospecifically Monodeuterated 5-epi-Valiolones:Â Exploring the Steric Course of 5-epi-Valiolone Dehydratase in Validamycin A Biosynthesis. Journal of Organic Chemistry, 2001, 66, 5066-5073.	3.2	21
63	Genetic organization of the putative salbostatin biosynthetic gene cluster including the 2-epi-5-epi-valiolone synthase gene in Streptomyces albus ATCC 21838. Applied Microbiology and Biotechnology, 2008, 80, 637-645.	3.6	21
64	Markerless Mutations in the Myxothiazol Biosynthetic Gene Cluster. Chemistry and Biology, 2003, 10, 953-960.	6.0	20
65	Catalytic Analysis of the Validamycin Glycosyltransferase (ValG) and Enzymatic Production of 4â€²â€²-epi-Validamycin A. Journal of Natural Products, 2008, 71, 1233-1236.	3.0	20
66	Genetically engineered production of 1,1â€²-bis-valienamine and validienamycin in Streptomyces hygroscopicus and their conversion to valienamine. Applied Microbiology and Biotechnology, 2009, 81, 895-902.	3.6	20
67	Evolution and Distribution of C7â€“Cyclitol Synthases in Prokaryotes and Eukaryotes. ACS Chemical Biology, 2017, 12, 979-988.	3.4	20
68	Modified Phenazines from an Indonesian Streptomyces sp.. Journal of Natural Products, 2010, 73, 472-475.	3.0	18
69	Transcriptional regulation and increased production of asukamycin in engineered Streptomyces nodosus subsp. asukaensis strains. Applied Microbiology and Biotechnology, 2012, 96, 451-460.	3.6	18
70	Glycosylation of acyl carrier protein-bound polyketides during pactamycin biosynthesis. Nature Chemical Biology, 2019, 15, 795-802.	8.0	18
71	Apoptolidins A and C activate AMPK in metabolically sensitive cell types and are mechanistically distinct from oligomycin A. Biochemical Pharmacology, 2015, 93, 251-265.	4.4	17
72	<scp>l</scp>-Phenylalanine Alters the Privileged Secondary Metabolite Production in the Marine-Derived Fungus Trichoderma erinaceum F1-1. Journal of Natural Products, 2020, 83, 79-87.	3.0	17

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73	Mechanistic Insights into Validoxylamine A 7'-Phosphate Synthesis by VldE Using the Structure of the Entire Product Complex. PLoS ONE, 2012, 7, e44934.	2.5	17
74	Complete biosynthetic pathway to the antidiabetic drug acarbose. Nature Communications, 2022, 13, .	12.8	17
75	TAXOL AND ITS RELATED TAXOIDS FROM THE NEEDLES OF TAXUS SUMATRANA. Chemical and Pharmaceutical Bulletin, 1995, 43, 365-367.	1.3	16
76	Anti-malarial activities of acylated bruceolide derivatives. Bioorganic and Medicinal Chemistry Letters, 1998, 8, 459-462.	2.2	16
77	Biosynthetic studies on the Î±-glucosidase inhibitor acarbose: the chemical synthesis of isotopically labeled 2-epi-5-epi-valiolone analogs. Carbohydrate Research, 2003, 338, 2075-2082.	2.3	15
78	A Homologue of the Mycobacterium tuberculosis PapA5 Protein, Rif-Orf20, Is an Acetyltransferase Involved in the Biosynthesis of Antitubercular Drug Rifamycin B by Amycolatopsis mediterranei S699. ChemBioChem, 2005, 6, 834-837.	2.6	15
79	Structure characterization and biological activity of 2-arylbenzofurans from an Indonesian plant, Sesbania grandiflora (L.) Pers. Phytochemistry Letters, 2020, 35, 211-215.	1.2	15
80	Isotope tracer investigations of natural products biosynthesis: the discovery of novel metabolic pathways. Journal of Labelled Compounds and Radiopharmaceuticals, 2007, 50, 1039-1051.	1.0	14
81	Comparative Metabolomic Analysis of an Alternative Biosynthetic Pathway to Pseudosugars in Actinosynnema mirum DSM 43827. ChemBioChem, 2013, 14, 1548-1551.	2.6	14
82	Structure of a Sedoheptulose 7-Phosphate Cyclase: ValA from Streptomyces hygroscopicus. Biochemistry, 2014, 53, 4250-4260.	2.5	14
83	The sedoheptulose 7-phosphate cyclases and their emerging roles in biology and ecology. Natural Product Reports, 2017, 34, 945-956.	10.3	14
84	Biosynthesis of the Nuclear Factor of Activated T Cells Inhibitor NFAT-133 in Streptomyces pactum. ACS Chemical Biology, 2020, 15, 3217-3226.	3.4	14
85	The Absolute Stereostructure of Panaxytriol,a Biologically Active Diacetylenic Acetogenin, from Ginseng Radix Rubra.. Chemical and Pharmaceutical Bulletin, 1995, 43, 1595-1597.	1.3	13
86	A Unique Mechanism for Methyl Ester Formation via an Amide Intermediate Found in Myxobacteria. ChemBioChem, 2006, 7, 1197-1205.	2.6	13
87	Global and pathway-specific transcriptional regulations of pactamycin biosynthesis in Streptomyces pactum. Applied Microbiology and Biotechnology, 2018, 102, 10589-10601.	3.6	13
88	Succinylated Apoptolidins from Amycolatopsis sp. ICBB 8242. Organic Letters, 2015, 17, 2526-2529.	4.6	12
89	Biosynthesis and metabolic engineering of pseudo-oligosaccharides. Emerging Topics in Life Sciences, 2018, 2, 405-417.	2.6	12
90	Asymmetric Synthesis and Biological Activities of Pactamycin-Inspired Aminocyclopentitols. Organic Letters, 2018, 20, 397-400.	4.6	11

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91	Distinct Substrate Specificity and Catalytic Activity of the Pseudoglycosyltransferase VldE. Chemistry and Biology, 2015, 22, 724-733.	6.0	10
92	The secondary metabolite pactamycin with potential for pharmaceutical applications: biosynthesis and regulation. Applied Microbiology and Biotechnology, 2019, 103, 4337-4345.	3.6	10
93	Antibacterial Potential of Secondary Metabolites from Indonesian Marine Bacterial Symbionts. International Journal of Microbiology, 2020, 2020, 1-11.	2.3	8
94	The Î±â€Ketoglutarate/Fe^{II}â€Dependent Dioxygenase VldW Is Responsible for the Formation of Validamycin B. ChemBioChem, 2012, 13, 2209-2211.	2.6	7
95	Total Synthesis of (Â±)-Isoperbergins and Correction of the Chemical Structure of Perbergin. Journal of Natural Products, 2016, 79, 2391-2396.	3.0	7
96	Armeniaspirol Antibiotic Biosynthesis: Chlorination and Oxidative Dechlorination Steps Affording Spiro[4.4]nonâ€8â€ene. ChemBioChem, 2019, 20, 764-769.	2.6	7
97	Structural revision of sesbagrandiflorains A and B, and synthesis and biological evaluation of 6-methoxy-2-arylbenzofuran derivatives. Journal of Natural Medicines, 2021, 75, 66-75.	2.3	7
98	Interkingdom Genetic Mix-and-Match To Produce Novel Sunscreens. ACS Synthetic Biology, 2019, 8, 2464-2471.	3.8	6
99	Biotransformations of anthranilic acid and phthalimide to potent antihyperlipidemic alkaloids by the marine-derived fungus Scedosporium apiospermum F41-1. Bioorganic Chemistry, 2021, 116, 105375.	4.1	6
100	Natural Occurrence of Hybrid Polyketides from Two Distinct Biosynthetic Pathways in Streptomyces pactum. ACS Chemical Biology, 2021, 16, 270-276.	3.4	5
101	Identification and Biological Activity of NFAT-133 Congeners from Streptomyces pactum. Journal of Natural Products, 2021, 84, 2411-2419.	3.0	4
102	Phomaligols Fâ€“I, polyoxygenated cyclohexenone derivatives from marine-derived fungus Aspergillus flavus BB1. Bioorganic Chemistry, 2021, 115, 105269.	4.1	4
103	EDB Gene Cluster-Dependent Indole Production Is Responsible for the Ability of Pseudomonas fluorescens NZI7 to Repel Grazing by Caenorhabditis elegans. Journal of Natural Products, 2022, 85, 590-598.	3.0	4
104	The chemistry and biology of natural ribomimetics and related compounds. RSC Chemical Biology, 2022, 3, 519-538.	4.1	3
105	Modulation of Specialized Metabolite Production in Genetically Engineered Streptomyces pactum. ACS Chemical Biology, 2021, 16, 2641-2650.	3.4	2
106	Aminocyclitols. , 2020, , 553-587.		1
107	The C7N Aminocyclitol Family of Natural Products. ChemInform, 2003, 34, no.	0.0	0