

# Atsushi Minami

## List of Publications by Year in descending order

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84  
papers

3,005  
citations

147726  
31  
h-index

182361  
51  
g-index

92  
all docs

92  
docs citations

92  
times ranked

2221  
citing authors

#	ARTICLE	IF	CITATIONS
1	Reconstitution of Biosynthetic Machinery for Indole-Diterpene Paxilline in <i>Aspergillus oryzae</i> . Journal of the American Chemical Society, 2013, 135, 1260-1263.	6.6	170
2	Identification of Ophiobolin F Synthase by a Genome Mining Approach: A Sesterterpene Synthase from <i>Aspergillus clavatus</i> . Organic Letters, 2013, 15, 594-597.	2.4	160
3	Genome Mining for Sesterterpenes Using Bifunctional Terpene Synthases Reveals a Unified Intermediate of Di/Sesterterpenes. Journal of the American Chemical Society, 2015, 137, 11846-11853.	6.6	141
4	Enzymatic catalysis of anti-Baldwin ring closure in polyether biosynthesis. Nature, 2012, 483, 355-358.	13.7	117
5	Cyclopentane-forming di/sesterterpene synthases: widely distributed enzymes in bacteria, fungi, and plants. Natural Product Reports, 2018, 35, 1330-1346.	5.2	105
6	Reconstitution of Biosynthetic Machinery for the Synthesis of the Highly Elaborated Indole Diterpene Penitrem. Angewandte Chemie - International Edition, 2015, 54, 5748-5752.	7.2	101
7	FAD-dependent enzyme-catalysed intermolecular [4+2] cycloaddition in natural product biosynthesis. Nature Chemistry, 2020, 12, 620-628.	6.6	97
8	Recent advances of Diels-Alderses involved in natural product biosynthesis. Journal of Antibiotics, 2016, 69, 500-506.	1.0	93
9	Total Biosynthesis of Diterpene Aphidicolin, a Specific Inhibitor of DNA Polymerase $\alpha$ : Heterologous Expression of Four Biosynthetic Genes in <i>Aspergillus oryzae</i> . Bioscience, Biotechnology and Biochemistry, 2011, 75, 1813-1817.	0.6	79
10	Rapid Reconstitution of Biosynthetic Machinery for Fungal Metabolites in <i>Aspergillus oryzae</i> : Total Biosynthesis of Aflatrem. ChemBioChem, 2014, 15, 2076-2080.	1.3	76
11	Unveiling the Biosynthetic Pathway of the Ribosomally Synthesized and Post-translationally Modified Peptide Ustiloxin B in Filamentous Fungi. Angewandte Chemie - International Edition, 2016, 55, 8072-8075.	7.2	76
12	Heterologous expression of highly reducing polyketide synthase involved in betaenone biosynthesis. Chemical Communications, 2015, 51, 1878-1881.	2.2	67
13	Efficient Reconstitution of Basidiomycota Diterpene Erinacine Gene Cluster in Ascomycota Host <i>Aspergillus oryzae</i> Based on Genomic DNA Sequences. Journal of the American Chemical Society, 2019, 141, 15519-15523.	6.6	60
14	Sequential Enzymatic Epoxidation Involved in Polyether Lasalocid Biosynthesis. Journal of the American Chemical Society, 2012, 134, 7246-7249.	6.6	59
15	Enzymatic Approach to Unnatural Glycosides with Diverse Aglycon Scaffolds Using Glycosyltransferase VinC. Journal of the American Chemical Society, 2005, 127, 6148-6149.	6.6	58
16	Cloning, Sequencing, and Functional Analysis of the Biosynthetic Gene Cluster of Macrolactam Antibiotic Vicenistatin in <i>Streptomyces halstedii</i> . Chemistry and Biology, 2004, 11, 79-86.	6.2	54
17	Biosynthesis of the Structurally Unique Polycyclopropanated Polyketide-Nucleoside Hybrid Jawsamycin (FR900848). Angewandte Chemie - International Edition, 2014, 53, 5423-5426.	7.2	53
18	Aglycon switch approach toward unnatural glycosides from natural glycoside with glycosyltransferase VinC. Tetrahedron Letters, 2005, 46, 6187-6190.	0.7	52

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19	Unveiling Biosynthesis of the Phytohormone Abscisic Acid in Fungi: Unprecedented Mechanism of Core Scaffold Formation Catalyzed by an Unusual Sesquiterpene Synthase. <i>Journal of the American Chemical Society</i> , 2018, 140, 12392-12395.	6.6	49
20	Focused Genome Mining of Structurally Related Sesterterpenes: Enzymatic Formation of Enantiomeric and Diastereomeric Products. <i>Organic Letters</i> , 2017, 19, 6696-6699.	2.4	48
21	Fungal-derived brevianamide assembly by a stereoselective semipinacolase. <i>Nature Catalysis</i> , 2020, 3, 497-506.	16.1	47
22	Substrate Flexibility of Viceniaminyltransferase VinC Involved in the Biosynthesis of Vicenistatin. <i>Journal of the American Chemical Society</i> , 2007, 129, 5102-5107.	6.6	45
23	Identification and functional analysis of brassicene C biosynthetic gene cluster in <i>Alternaria brassicicola</i> . <i>Bioorganic and Medicinal Chemistry Letters</i> , 2009, 19, 870-874.	1.0	43
24	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
25	Biosynthetic assembly of cytochalasin backbone. <i>Tetrahedron Letters</i> , 2013, 54, 2999-3002.	0.7	43
26	Ascomycete <i>Aspergillus oryzae</i> Is an Efficient Expression Host for Production of Basidiomycete Terpenes by Using Genomic DNA Sequences. <i>Applied and Environmental Microbiology</i> , 2019, 85, .	1.4	43
27	Biosynthesis of Shearinine: Diversification of a Tandem Prenyl Moiety of Fungal Indole Diterpenes. <i>Organic Letters</i> , 2016, 18, 5026-5029.	2.4	39
28	Theoretical Study of Sesterfisherol Biosynthesis: Computational Prediction of Key Amino Acid Residue in Terpene Synthase. <i>Scientific Reports</i> , 2018, 8, 2473.	1.6	39
29	Dioxygenases, Key Enzymes to Determine the Aglycon Structures of Fusicoccin and Brassicene, Diterpene Compounds Produced by Fungi. <i>Journal of the American Chemical Society</i> , 2011, 133, 2548-2555.	6.6	36
30	Multiple Oxidative Modifications in the Ophiobolin Biosynthesis: P450 Oxidations Found in Genome Mining. <i>Organic Letters</i> , 2016, 18, 1980-1983.	2.4	36
31	Biosynthetic Machinery of Diterpene Pleuromutilin Isolated from Basidiomycete Fungi. <i>ChemBioChem</i> , 2017, 18, 2317-2322.	1.3	35
32	Heterologous production of asperipin-2a: proposal for sequential oxidative macrocyclization by a fungi-specific DUF3328 oxidase. <i>Organic and Biomolecular Chemistry</i> , 2019, 17, 39-43.	1.5	35
33	Biosynthetic Study on Antihypercholesterolemic Agent Phomoidride: General Biogenesis of Fungal Dimeric Anhydrides. <i>Organic Letters</i> , 2015, 17, 5658-5661.	2.4	34
34	Pictet-Spenglerase involved in tetrahydroisoquinoline antibiotic biosynthesis. <i>Current Opinion in Chemical Biology</i> , 2012, 16, 142-149.	2.8	31
35	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
36	Total synthesis of alkaloids using both chemical and biochemical methods. <i>Natural Product Reports</i> , 2020, 37, 1098-1121.	5.2	29

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37	Allosteric Regulation of Epoxide Opening Cascades by a Pair of Epoxide Hydrolases in Monensin Biosynthesis. <i>ACS Chemical Biology</i> , 2014, 9, 562-569.	1.6	28
38	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
39	Total Biosynthesis of Fungal Indole Diterpenes Using Cell Factories. <i>Heterocycles</i> , 2016, 92, 397.	0.4	27
40	Enzymatic Formation of a Skipped Methyl-Substituted Octaprenyl Side Chain of Longestin (KS505a): Involvement of Homo-PP as a Common Extender Unit. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 6629-6632.	7.2	27
41	Predicting the chemical space of fungal polyketides by phylogeny-based bioinformatics analysis of polyketide synthase-nonribosomal peptide synthetase and its modification enzymes. <i>Scientific Reports</i> , 2020, 10, 13556.	1.6	27
42	Biosynthesis of Indole Diterpene Lolitrems: Radical-Induced Cyclization of an Epoxyalcohol Affording a Characteristic Lolitremane Skeleton. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 17996-18002.	7.2	25
43	Chemo-enzymatic Total Syntheses of Jorunnamycin A, Saframycin A, and N-Fmoc Saframycin Y3. <i>Journal of the American Chemical Society</i> , 2018, 140, 10705-10709.	6.6	24
44	Reconstitution of biosynthetic machinery of fungal polyketides: unexpected oxidations of biosynthetic intermediates by expression host. <i>Bioscience, Biotechnology and Biochemistry</i> , 2016, 80, 426-431.	0.6	23
45	Total Biosynthesis of Antiangiogenic Agent ( $\tilde{\text{A}}$ )-Terpestacin by Artificial Reconstitution of the Biosynthetic Machinery in <i>Aspergillus oryzae</i> . <i>Journal of Organic Chemistry</i> , 2018, 83, 7042-7048.	1.7	23
46	Regiospecificities and Prenylation Mode Specificities of the Fungal Indole Diterpene Prenyltransferases AtmD and PaxD. <i>Applied and Environmental Microbiology</i> , 2013, 79, 7298-7304.	1.4	22
47	Elucidation of biosynthetic pathway of a plant hormone abscisic acid in phytopathogenic fungi. <i>Bioscience, Biotechnology and Biochemistry</i> , 2019, 83, 1642-1649.	0.6	22
48	Genome-Based Discovery of Enantiomeric Pentacyclic Sesterterpenes Catalyzed by Fungal Bifunctional Terpene Synthases. <i>Organic Letters</i> , 2021, 23, 4645-4650.	2.4	22
49	Total Biosynthesis of Brassicenes: Identification of a Key Enzyme for Skeletal Diversification. <i>Organic Letters</i> , 2018, 20, 6178-6182.	2.4	21
50	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
51	Cyclization mechanism of phomopsene synthase: mass spectrometry based analysis of various site-specifically labeled terpenes. <i>Journal of Antibiotics</i> , 2017, 70, 632-638.	1.0	20
52	Functional analysis of a prenyltransferase gene (paxD) in the paxilline biosynthetic gene cluster. <i>Applied Microbiology and Biotechnology</i> , 2014, 98, 199-206.	1.7	18
53	Genome mining approach for harnessing the cryptic gene cluster in <i>Alternaria solani</i> : production of PKS-NRPS hybrid metabolite, didymellamide B. <i>Tetrahedron Letters</i> , 2016, 57, 2793-2796.	0.7	18
54	Heterologous Biosynthesis of Fungal Indole Sesquiterpene Suspendole. <i>ChemBioChem</i> , 2018, 19, 1492-1497.	1.3	18

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55	Identification of novel sesterterpenes by genome mining of phytopathogenic fungi <i>Phoma</i> and <i>Colletotrichum</i> sp.. <i>Tetrahedron Letters</i> , 2018, 59, 1136-1139.	0.7	17
56	Biosynthetic Machinery of 6- <i>Hydroxymellein</i> Derivatives Leading to Cyclohelminthols and Palmaenones. <i>ChemBioChem</i> , 2020, 21, 360-367.	1.3	17
57	Structure analysis of geranyl pyrophosphate methyltransferase and the proposed reaction mechanism of SAM-dependent C-methylation. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2012, 68, 1558-1569.	2.5	16
58	Biosynthetic study of conidiation-inducing factor conidiogenone: heterologous production and cyclization mechanism of a key bifunctional diterpene synthase. <i>Bioscience, Biotechnology and Biochemistry</i> , 2019, 83, 192-201.	0.6	15
59	Oxidative Ring Contraction by a Multifunctional Dioxygenase Generates the Core Cyclooctadiene in the Biosynthesis of Fungal Dimeric Anhydride Zopfiellin. <i>Organic Letters</i> , 2020, 22, 1997-2001.	2.4	15
60	Biosynthesis of Cyclochlorotine: Identification of the Genes Involved in Oxidative Transformations and Intramolecular O-N-Transacylation. <i>Organic Letters</i> , 2021, 23, 2616-2620.	2.4	15
61	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
62	Stepwise cyclopropanation on the polycyclopropanated polyketide formation in jawsamycin biosynthesis. <i>Organic and Biomolecular Chemistry</i> , 2017, 15, 1076-1079.	1.5	14
63	Biochemistry-Guided Prediction of the Absolute Configuration of Fungal Reduced Polyketides. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 23403-23411.	7.2	13
64	Biosynthetic Studies of Phomopsins Unveil Posttranslational Installation of Dehydroamino Acids by UstYa Family Proteins. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 25729-25734.	7.2	13
65	Remarkable synergistic effect between MonBI and MonBII on epoxide opening reaction in ionophore polyether monensin biosynthesis. <i>Tetrahedron Letters</i> , 2011, 52, 5277-5280.	0.7	12
66	A fungal prenyltransferase catalyzes the regular di-prenylation at positions 20 and 21 of paxilline. <i>Bioscience, Biotechnology and Biochemistry</i> , 2014, 78, 448-454.	0.6	11
67	The Pictet-Spengler Mechanism Involved in the Biosynthesis of Tetrahydroisoquinoline Antitumor Antibiotics. <i>Methods in Enzymology</i> , 2012, 516, 79-98.	0.4	10
68	Catalytic asymmetric synthesis of the common amino acid component in the biosynthesis of tetrahydroisoquinoline alkaloids. <i>Tetrahedron Letters</i> , 2016, 57, 623-626.	0.7	8
69	Unveiling the Biosynthetic Pathway of the Ribosomally Synthesized and Posttranslationally Modified Peptide Ustiloxin B in Filamentous Fungi. <i>Angewandte Chemie</i> , 2016, 128, 8204-8207.	1.6	7
70	Enzymatic Formation of a Skipped Methyl-Substituted Octaprenyl Side Chain of Longestin (KS505a): Involvement of Homo-PP as a Common Extender Unit. <i>Angewandte Chemie</i> , 2018, 130, 6739-6742.	1.6	7
71	Structure and biosynthesis of the ribosomal lipopeptide antibiotic albopeptins. <i>Bioscience, Biotechnology and Biochemistry</i> , 2022, 86, 717-723.	0.6	7
72	Crystallization and preliminary X-ray crystallographic study of a methyltransferase involved in 2-methylisoborneol biosynthesis in <i>Streptomyces lasaliensis</i> . <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2011, 67, 417-420.	0.7	5

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73	Subcellular localization of aphidicolin biosynthetic enzymes heterologously expressed in <i>Aspergillus oryzae</i> . <i>Bioscience, Biotechnology and Biochemistry</i> , 2018, 82, 139-147.	0.6	5
74	Biosynthesis of Indole Diterpene Lolitrems: Radical-Induced Cyclization of an Epoxyalcohol Affording a Characteristic Lolitremane Skeleton. <i>Angewandte Chemie</i> , 2020, 132, 18152-18158.	1.6	5
75	Crystallization and preliminary X-ray analysis of vicenisaminyltransferase VinC. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2008, 64, 558-560.	0.7	4
76	Analysis of Enantiofacial Selective Epoxidation Catalyzed by Flavin-containing Monooxygenase Lsd18 Involved in Ionophore Polyether Lasalocid Biosynthesis. <i>Chemistry Letters</i> , 2014, 43, 1779-1781.	0.7	4
77	Biosynthetic machineries of anthraquinones and bisanthraquinones in <i>Talaromyces islandicus</i> . <i>Bioscience, Biotechnology and Biochemistry</i> , 2022, 86, 435-443.	0.6	4
78	Biosynthetic Studies of Phomopsins Unveil Posttranslational Installation of Dehydroamino Acids by UstYa Family Proteins. <i>Angewandte Chemie</i> , 2021, 133, 25933.	1.6	2
79	Heterologous expression of a polyketide synthase ACRTS2 in <i>Aspergillus oryzae</i> produces host-selective ACR toxins: coproduction of minor metabolites. <i>Bioscience, Biotechnology and Biochemistry</i> , 2022, 86, 287-293.	0.6	2
80	Biosynthesis of Indole Diterpenes. , 2020, , 446-466.		1
81	Titelbild: Reconstitution of Biosynthetic Machinery for the Synthesis of the Highly Elaborated Indole Diterpene Penitrem ( <i>Angew. Chem.</i> 19/2015). <i>Angewandte Chemie</i> , 2015, 127, 5621-5621.	1.6	0
82	Biochemistry-Guided Prediction of the Absolute Configuration of Fungal Reduced Polyketides. <i>Angewandte Chemie</i> , 0, , .	1.6	0
83	Synthesis of Natural Products with Biosynthetic Machinery. <i>Yuki Gosei Kagaku Kyokaishi/Journal of Synthetic Organic Chemistry</i> , 2014, 72, 548-556.	0.0	0
84	Sesterterpene Biosynthesis: Cyclization Mechanisms and Oxidative Modifications. , 2020, , 553-576.		0