

Hai Deng

List of Publications by Year in descending order

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88
papers

3,420
citations

147801

31
h-index

155660

55
g-index

100
all docs

100
docs citations

100
times ranked

3186
citing authors

#	ARTICLE	IF	CITATIONS
1	Crystal structure and mechanism of a bacterial fluorinating enzyme. <i>Nature</i> , 2004, 427, 561-565.	27.8	306
2	Enzymatic Fluorination and Biotechnological Developments of the Fluorinase. <i>Chemical Reviews</i> , 2015, 115, 634-649.	47.7	261
3	Upconversion NIR-II fluorophores for mitochondria-targeted cancer imaging and photothermal therapy. <i>Nature Communications</i> , 2020, 11, 6183.	12.8	176
4	Novel NIR-II organic fluorophores for bioimaging beyond 1550 nm. <i>Chemical Science</i> , 2020, 11, 2621-2626.	7.4	138
5	Diverse Metabolic Profiles of a <i>Streptomyces</i> Strain Isolated from a Hyper-arid Environment. <i>Journal of Natural Products</i> , 2011, 74, 1965-1971.	3.0	129
6	Chaxamycins Aâ€“D, Bioactive Ansamycins from a Hyper-arid Desert <i>Streptomyces</i> sp.. <i>Journal of Natural Products</i> , 2011, 74, 1491-1499.	3.0	116
7	The Fluorinase from <i>Streptomyces cattleya</i> Is Also a Chlorinase. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 759-762.	13.8	98
8	Identification of Fluorinases from <i>Streptomyces</i> sp MA37, <i>Norcardia brasiliensis</i> , and <i>Actinoplanes</i> sp N902â€“109 by Genome Mining. <i>ChemBioChem</i> , 2014, 15, 364-368.	2.6	97
9	Fluorometabolite biosynthesis and the fluorinase from <i>Streptomyces cattleya</i> . <i>Natural Product Reports</i> , 2004, 21, 773.	10.3	89
10	Chaxapeptin, a Lasso Peptide from Extremotolerant <i>Streptomyces leeuwenhoekii</i> Strain C58 from the Hyperarid Atacama Desert. <i>Journal of Organic Chemistry</i> , 2015, 80, 10252-10260.	3.2	83
11	Fluorinase mediated C-18F bond formation, an enzymatic tool for PET labelling. <i>Chemical Communications</i> , 2006, , 652.	4.1	78
12	Isolation and characterisation of 5â€“fluorodeoxyadenosine synthase, a fluorination enzyme from <i>Streptomyces cattleya</i> . <i>FEBS Letters</i> , 2003, 547, 111-114.	2.8	71
13	The fluorinase, the chlorinase and the duf-62 enzymes. <i>Current Opinion in Chemical Biology</i> , 2008, 12, 582-592.	6.1	69
14	Enzymatic Fluorination in <i>Streptomyces cattleya</i> Takes Place with an Inversion of Configuration Consistent with an SN2 Reaction Mechanism. <i>ChemBioChem</i> , 2004, 5, 685-690.	2.6	63
15	The first enzymatic method for C-18F bond formation: the synthesis of 5'-[18F]-fluoro-5'-deoxyadenosine for imaging with PET. <i>Journal of Labelled Compounds and Radiopharmaceuticals</i> , 2003, 46, 1181-1189.	1.0	54
16	An enzymatic route to 5-deoxy-5-[18F]fluoro-d-ribose, a [¹⁸ F]-fluorinated sugar for PET imaging. <i>Chemical Communications</i> , 2010, 46, 139-141.	4.1	49
17	Fluorine Speciation Analysis Using Reverse Phase Liquid Chromatography Coupled Off-Line to Continuum Source Molecular Absorption Spectrometry (CS-MAS): Identification and Quantification of Novel Fluorinated Organic Compounds in Environmental and Biological Samples. <i>Analytical Chemistry</i> , 2012, 84, 6213-6219.	6.5	49
18	Dithiopyrrolone Natural Products: Isolation, Synthesis and Biosynthesis. <i>Marine Drugs</i> , 2013, 11, 3970-3997.	4.6	48

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19	Identification of a fluorometabolite from <i>Streptomyces</i> sp. MA37: (2R3S4S)-5-fluoro-2,3,4-trihydroxypentanoic acid. <i>Chemical Science</i> , 2015, 6, 1414-1419.	7.4	47
20	Discovery of a Single Monooxygenase that Catalyzes Carbamate Formation and Ring Contraction in the Biosynthesis of the Legonmycins. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 12697-12701.	13.8	46
21	Fluoroacetate biosynthesis from the marine-derived bacterium <i>Streptomyces xinghaiensis</i> NRRL B-24674. <i>Organic and Biomolecular Chemistry</i> , 2014, 12, 4828-4831.	2.8	44
22	In Vitro Reconstituted Biotransformation of 4-Fluorothreonine from Fluoride Ion: Application of the Fluorinase. <i>Chemistry and Biology</i> , 2008, 15, 1268-1276.	6.0	43
23	Butremycin, the 3-Hydroxyl Derivative of Ikarugamycin and a Protonated Aromatic Tautomer of 5- ϵ -Methylthioinosine from a Ghanaian <i>Micromonospora</i> sp. K310. <i>Marine Drugs</i> , 2014, 12, 999-1012.	4.6	42
24	Profiling of secondary metabolite gene clusters regulated by <i>LaeA</i> in <i>Aspergillus niger</i> FGSC A1279 based on genome sequencing and transcriptome analysis. <i>Research in Microbiology</i> , 2018, 169, 67-77.	2.1	40
25	Biosynthesis of Neocarazostatin A Reveals the Sequential Carbazole Prenylation and Hydroxylation in the Tailoring Steps. <i>Chemistry and Biology</i> , 2015, 22, 1633-1642.	6.0	39
26	Legonaridin, a new member of linaridin RiPP from a Ghanaian <i>Streptomyces</i> isolate. <i>Organic and Biomolecular Chemistry</i> , 2015, 13, 9585-9592.	2.8	39
27	Fluorine biocatalysis. <i>Current Opinion in Chemical Biology</i> , 2020, 55, 119-126.	6.1	36
28	Substrate specificity in enzymatic fluorination. The fluorinase from <i>Streptomyces cattleya</i> accepts 2'-deoxyadenosine substrates. <i>Organic and Biomolecular Chemistry</i> , 2006, 4, 1458.	2.8	35
29	Biological fluorination from the sea: discovery of a SAM-dependent nucleophilic fluorinating enzyme from the marine-derived bacterium <i>Streptomyces xinghaiensis</i> NRRL B24674. <i>RSC Advances</i> , 2016, 6, 27047-27051.	3.6	35
30	A Second Near-Infrared Ru(II) Polypyridyl Complex for Synergistic Chemo-Photothermal Therapy. <i>Journal of Medicinal Chemistry</i> , 2022, 65, 2225-2237.	6.4	33
31	The Fish Pathogen <i>Yersinia ruckeri</i> Produces Holomycin and Uses an RNA Methyltransferase for Self-resistance. <i>Journal of Biological Chemistry</i> , 2013, 288, 14688-14697.	3.4	32
32	A novel near-infrared fluorescent light-up probe for tumor imaging and drug-induced liver injury detection. <i>Chemical Communications</i> , 2019, 55, 2541-2544.	4.1	32
33	Identification of 5-fluoro-5-deoxy-d-ribose-1-phosphate as an intermediate in fluorometabolite biosynthesis in <i>Streptomyces cattleya</i> . <i>Chemical Communications</i> , 2004, , 592.	4.1	31
34	Accramycin A, a New Aromatic Polyketide, from the Soil Bacterium, <i>Streptomyces</i> sp. MA37. <i>Molecules</i> , 2019, 24, 3384.	3.8	31
35	A Co-Culturing Approach Enables Discovery and Biosynthesis of a Bioactive Indole Alkaloid Metabolite. <i>Molecules</i> , 2020, 25, 256.	3.8	31
36	Bacterial pathogens: threat or treat (a review on bioactive natural products from bacterial) Tj ETQq0 0 0 rgBT /Overlock 10 Tf,50 62 Td (10.3	30

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37	Identification and heterologous expression of the biosynthetic gene cluster for holomycin produced by <i>Streptomyces clavuligerus</i> . <i>Process Biochemistry</i> , 2011, 46, 811-816.	3.7	28
38	Mn-Loaded apolactoferrin dots for <i>in vivo</i> MRI and NIR-II cancer imaging. <i>Journal of Materials Chemistry C</i> , 2019, 7, 9448-9454.	5.5	28
39	Targeted Dereplication of Microbial Natural Products by High-Resolution MS and Predicted LC Retention Time. <i>Journal of Natural Products</i> , 2017, 80, 1370-1377.	3.0	27
40	Paenidigyamycin A, Potent Antiparasitic Imidazole Alkaloid from the Ghanaian <i>Paenibacillus</i> sp. DE2SH. <i>Marine Drugs</i> , 2019, 17, 9.	4.6	27
41	<i>S</i> -Adenosyl-L-methionine:Hydroxide Adenosyltransferase: A SAM Enzyme. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 5357-5361.	13.8	26
42	Organic NIR-II dyes with ultralong circulation persistence for image-guided delivery and therapy. <i>Journal of Controlled Release</i> , 2022, 342, 157-169.	9.9	26
43	Investigation of Penicillin Binding Protein (PBP)-like Peptide Cyclase and Hydrolase in Surugamide Non-ribosomal Peptide Biosynthesis. <i>Cell Chemical Biology</i> , 2019, 26, 737-744.e4.	5.2	25
44	Discovery and Biosynthetic Investigation of a New Antibacterial Dehydrated Non-Ribosomal Tripeptide. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 3229-3237.	13.8	25
45	Butrepyrazinone, a New Pyrazinone with an Unusual Methylation Pattern from a Ghanaian <i>Verrucospora</i> sp. K51G. <i>Marine Drugs</i> , 2014, 12, 5197-5208.	4.6	24
46	(±)-Hippolide J – A Pair of Unusual Antifungal Enantiomeric Sesterterpenoids from the Marine Sponge <i>Hippospongia lachne</i> . <i>European Journal of Organic Chemistry</i> , 2017, 2017, 3421-3426.	2.4	24
47	The identification of (3R,4S)-5-fluoro-5-deoxy-d-ribulose-1-phosphate as an intermediate in fluorometabolite biosynthesis in <i>Streptomyces cattleya</i> . <i>Bioorganic Chemistry</i> , 2007, 35, 375-385.	4.1	23
48	Directed Accumulation of Anticancer Depsipeptides by Characterization of Neoantimycins Biosynthetic Pathway and an NADPH-Dependent Reductase. <i>ACS Chemical Biology</i> , 2018, 13, 2153-2160.	3.4	23
49	LC-HRMS-Database Screening Metrics for Rapid Prioritization of Samples to Accelerate the Discovery of Structurally New Natural Products. <i>Journal of Natural Products</i> , 2019, 82, 211-220.	3.0	22
50	Legonoxamines A-B, two new hydroxamate siderophores from the soil bacterium, <i>Streptomyces</i> sp. MA37. <i>Tetrahedron Letters</i> , 2019, 60, 75-79.	1.4	22
51	Tianchimycins A–B, 16-membered macrolides from the rare actinomycete <i>Saccharothrix xinjiangensis</i> . <i>Tetrahedron</i> , 2013, 69, 6060-6064.	1.9	19
52	Dissection of the neocarazostatin: a C ₄ alkyl side chain biosynthesis by <i>in vitro</i> reconstitution. <i>Organic and Biomolecular Chemistry</i> , 2017, 15, 3843-3848.	2.8	19
53	An unusual metal-bound 4-fluorothreonine transaldolase from <i>Streptomyces</i> sp. MA37 catalyses promiscuous transaldol reactions. <i>Applied Microbiology and Biotechnology</i> , 2020, 104, 3885-3896.	3.6	18
54	A ThDP-dependent enzymatic carbonylation reaction involved in Neocarazostatin A tricyclic carbazole formation. <i>Organic and Biomolecular Chemistry</i> , 2016, 14, 8679-8684.	2.8	17

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55	Deletion of the epigenetic regulator GcnE in <i>Aspergillus niger</i> FGSC A1279 activates the production of multiple polyketide metabolites. <i>Microbiological Research</i> , 2018, 217, 101-107.	5.3	17
56	Identification and Characterization of the Biosynthetic Gene Cluster of Thiolutin, a Tumor Angiogenesis Inhibitor, in <i>Saccharothrix algeriensis</i> NRRL B-24137. <i>Anti-Cancer Agents in Medicinal Chemistry</i> , 2015, 15, 277-284.	1.7	17
57	Mechanistic Insights into Water Activation in SAM Hydroxide Adenosyltransferase (dufâ€62). <i>ChemBioChem</i> , 2009, 10, 2455-2459.	2.6	16
58	Pseudochelin A, a siderophore of <i>Pseudoalteromonas piscicida</i> S2040. <i>Tetrahedron</i> , 2017, 73, 2633-2637.	1.9	15
59	Signalling and Bioactive Metabolites from <i>Streptomyces</i> sp. RK44. <i>Molecules</i> , 2020, 25, 460.	3.8	15
60	Identification and characterization of the actinomycin G gene cluster in <i>Streptomyces iakyrus</i> . <i>Molecular BioSystems</i> , 2013, 9, 1286.	2.9	14
61	The identification of 5â€2-fluoro-5-deoxyinosine as a shunt product in cell free extracts of <i>Streptomyces cattleya</i> . <i>Bioorganic Chemistry</i> , 2005, 33, 393-401.	4.1	12
62	Enzymatic Reconstitution and Biosynthetic Investigation of the Bacterial Carbazole Neocarazostatin A. <i>Journal of Organic Chemistry</i> , 2019, 84, 16323-16328.	3.2	12
63	Novel electrochemical nanoswitch biosensor based on self-assembled pH-sensitive continuous circular DNA. <i>Biosensors and Bioelectronics</i> , 2019, 131, 274-279.	10.1	12
64	Characterization of the promiscuous <i>N</i>-acyl CoA transferase, LgoC, in legionoxamine biosynthesis. <i>Organic and Biomolecular Chemistry</i> , 2020, 18, 2219-2222.	2.8	11
65	Novel South African Rare Actinomycete <i>Kribbella speibonae</i> Strain SK5: A Prolific Producer of Hydroxamate Siderophores Including New Dehydroxylated Congeners. <i>Molecules</i> , 2020, 25, 2979.	3.8	11
66	Aminoacyl chain translocation catalysed by a type II thioesterase domain in an unusual non-ribosomal peptide synthetase. <i>Nature Communications</i> , 2022, 13, 62.	12.8	11
67	Mining complex bacteria media for all fluorinated compounds made possible by using HPLC coupled parallel to fluorine-specific and molecular specific detection. <i>Journal of Analytical Atomic Spectrometry</i> , 2013, 28, 877.	3.0	10
68	Disruption of a methyltransferase gene in actinomycin G gene cluster in <i>Streptomyces iakyrus</i> increases the production of phenazinomycin. <i>FEMS Microbiology Letters</i> , 2014, 352, 62-68.	1.8	10
69	Targeted Isolation of Indole Alkaloids from <i>Streptomyces</i> sp. CT37. <i>Molecules</i> , 2020, 25, 1108.	3.8	10
70	Discovery of New Antibacterial Accramycins from a Genetic Variant of the Soil Bacterium, <i>Streptomyces</i> sp. MA37. <i>Biomolecules</i> , 2020, 10, 1464.	4.0	9
71	Peculiarities of promiscuous l-threonine transaldolases for enantioselective synthesis of ð2-hydroxy-l±-amino acids. <i>Applied Microbiology and Biotechnology</i> , 2021, 105, 3507-3520.	3.6	9
72	Defluorination of 4-fluorothreonine by threonine deaminase. <i>Organic and Biomolecular Chemistry</i> , 2020, 18, 6236-6240.	2.8	8

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73	Identification of 5-Fluoro-5-Deoxy-Ribulose as a Shunt Fluorometabolite in <i>Streptomyces</i> sp. MA37. <i>Biomolecules</i> , 2020, 10, 1023.	4.0	7
74	Draft Genome Sequence of <i>Streptomyces</i> sp. Strain CT34, Isolated from a Ghanaian Soil Sample. <i>Genome Announcements</i> , 2015, 3, .	0.8	5
75	Discovery and Biosynthetic Investigation of a New Antibacterial Dehydrated Non-ribosomal Tripeptide. <i>Angewandte Chemie</i> , 2021, 133, 3266-3274.	2.0	5
76	Genomic scanning enabling discovery of a new antibacterial bicyclic carbamate-containing alkaloid. <i>Synthetic and Systems Biotechnology</i> , 2021, 6, 12-19.	3.7	5
77	Paenidigamycin G: 1-Acetyl-2,4-dimethyl-3-phenethyl-1H-imidazol-3-ium. <i>MolBank</i> , 2019, 2019, M1094.	0.5	4
78	Digya-indoleic acid A: 2-(1-(4-Hydroxyphenyl)-3-oxobut-1-en-2-yloxy)-3-(1H-indol-3-yl)propanoic Acid, a Novel Indole Alkaloid. <i>MolBank</i> , 2019, 2019, M1080.	0.5	4
79	The chemical profile of activated secondary metabolites by overexpressing <i>LaeA</i> in <i>Aspergillus niger</i> . <i>Microbiological Research</i> , 2021, 248, 126735.	5.3	4
80	<i>In vitro</i> reconstitution of the biosynthetic pathway of 3-hydroxypicolinic acid. <i>Organic and Biomolecular Chemistry</i> , 2019, 17, 454-460.	2.8	3
81	The X-factor: Enhanced β -oxidation on intracellular triacylglycerols enabling overproduction of polyketide drug-like molecules in microorganisms. <i>Synthetic and Systems Biotechnology</i> , 2020, 5, 19-20.	3.7	3
82	β -D-Glucopyranosyl-(1 \rightarrow 2)-[6-O-(l-tryptophanyl)- β -D-fructofuranoside]. <i>MolBank</i> , 2019, 2019, M1066.	0.5	2
83	Fluorometabolite Biosynthesis and the Fluorinase from <i>Streptomyces cattleya</i> . <i>ChemInform</i> , 2005, 36, no.	0.0	1
84	Action in pairs. <i>Virulence</i> , 2014, 5, 585-586.	4.4	1
85	Characterization of a class II ketol-acid reductoisomerase from <i>Mycobacterium tuberculosis</i> . <i>RSC Advances</i> , 2022, 12, 10540-10544.	3.6	1
86	Biological Fluorination in <i>Streptomyces cattleya</i> . , 2008, , 761-777.		0
87	Discovery of a Single Monooxygenase that Catalyzes Carbamate Formation and Ring Contraction in the Biosynthesis of the Legonmycins (<i>Angew. Chem.</i> 43/2015). <i>Angewandte Chemie</i> , 2015, 127, 13016-13016.	2.0	0
88	Editorial (Thematic Issue: Discovery and Biosynthesis of Natural Products with Anti-Cancer) <i>Trends in Microbiology</i> , 2017, 15, 101-102.	1.7	0