Anna Lisa Vagstad

List of Publications by Year
in descending order

28 papers	1,355 citations	331670 21 h-index	454955 30 g-index
31 all docs	31 docs citations	31 times ranked	1194 citing authors

#	Article	IF	Citations
1	Deconstruction of Iterative Multidomain Polyketide Synthase Function. Science, 2008, 320, 243-246.	12.6	202
2	Structural basis for biosynthetic programming of fungal aromatic polyketide cyclization. Nature, 2009, 461, 1139-1143.	27.8	176
3	Radical Sâ€Adenosyl Methionine Epimerases: Regioselective Introduction of Diverse <scp>D</scp>â€Amino Acid Patterns into Peptide Natural Products. Angewandte Chemie - International Edition, 2014, 53, 8503-8507.	13.8	105
4	Natural noncanonical protein splicing yields products with diverse Î²-amino acid residues. Science, 2018, 359, 779-782.	12.6	87
5	Paradigm Shift for Radical S-Adenosyl-<scp>l</scp>-methionine Reactions: The Organometallic Intermediate Î© Is Central to Catalysis. Journal of the American Chemical Society, 2018, 140, 8634-8638.	13.7	76
6	Systematic Domain Swaps of Iterative, Nonreducing Polyketide Synthases Provide a Mechanistic Understanding and Rationale For Catalytic Reprogramming. Journal of the American Chemical Society, 2014, 136, 7348-7362.	13.7	59
7	Polyketide Proofreading by an Acyltransferase-like Enzyme. Chemistry and Biology, 2012, 19, 329-339.	6.0	52
8	Polytheonamide biosynthesis showcasing the metabolic potential of sponge-associated uncultivated â€˜Entotheonellaâ€™ bacteria. Current Opinion in Chemical Biology, 2016, 31, 8-14.	6.1	51
9	Starter unit specificity directs genome mining of polyketide synthase pathways in fungi. Bioorganic Chemistry, 2008, 36, 16-22.	4.1	48
10	Characterization of a Fungal Thioesterase Having Claisen Cyclase and Deacetylase Activities in Melanin Biosynthesis. Chemistry and Biology, 2012, 19, 1525-1534.	6.0	46
11	Interrogation of Global Active Site Occupancy of a Fungal Iterative Polyketide Synthase Reveals Strategies for Maintaining Biosynthetic Fidelity. Journal of the American Chemical Society, 2012, 134, 6865-6877.	13.7	45
12	Analysis of the cercosporin polyketide synthase CTB1 reveals a new fungal thioesterase function. Chemical Communications, 2012, 48, 11772.	4.1	45
13	Landornamides: Antiviral Ornithineâ€Containing Ribosomal Peptides Discovered through Genome Mining. Angewandte Chemie - International Edition, 2020, 59, 11763-11768.	13.8	41
14	Synthetic Strategy of Nonreducing Iterative Polyketide Synthases and the Origin of the Classical â€œStarterâ€Unit Effectâ€• ChemBioChem, 2008, 9, 1019-1023.	2.6	40
15	Combinatorial Domain Swaps Provide Insights into the Rules of Fungal Polyketide Synthase Programming and the Rational Synthesis of Nonâ€Native Aromatic Products. Angewandte Chemie - International Edition, 2013, 52, 1718-1721.	13.8	38
16	Introduction of <scp>d</scp>â€Amino Acids in Minimalistic Peptide Substrates by an Sâ€Adenosylâ€<scp>l</scp>â€Methionine Radical Epimerase. Angewandte Chemie - International Edition, 2019, 58, 2246-2250.	13.8	35
17	Starter Unit Flexibility for Engineered Product Synthesis by the Nonreducing Polyketide Synthase PksA. ACS Chemical Biology, 2015, 10, 1443-1449.	3.4	31
18	Ribosomally derived lipopeptides containing distinct fatty acyl moieties. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	30

#	Article	IF	Citations
19	Probing the Selectivity and Proteinâ‹…Protein Interactions of a Nonreducing Fungal Polyketide Synthase Using Mechanism-Based Crosslinkers. Chemistry and Biology, 2013, 20, 1135-1146.	6.0	27
20	Acylâ€Carrier Proteinâ€“Phosphopantetheinyltransferase Partnerships in Fungal Fatty Acid Synthases. ChemBioChem, 2008, 9, 1559-1563.	2.6	22
21	Polyketide mimetics yield structural and mechanistic insights into product template domain function in nonreducing polyketide synthases. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E4142-E4148.	7.1	18
22	Structural and Biochemical Analysis of Proteinâ€“Protein Interactions Between the Acylâ€Carrier Protein and Product Template Domain. Angewandte Chemie - International Edition, 2016, 55, 13005-13009.	13.8	16
23	Posttranslationally Acting Arginases Provide a Ribosomal Route to Nonâ€proteinogenic Ornithine Residues in Diverse Peptide Sequences. Angewandte Chemie - International Edition, 2020, 59, 21442-21447.	13.8	12
24	Introduction of <scp>d</scp>â€Amino Acids in Minimalistic Peptide Substrates by an Sâ€Adenosylâ€<scp>l</scp>â€Methionine Radical Epimerase. Angewandte Chemie, 2019, 131, 2268-2272.	2.0	9
25	Radical S-Adenosylmethionine Peptide Epimerases: Detection of Activity and Characterization of d-Amino Acid Products. Methods in Enzymology, 2018, 604, 237-257.	1.0	6
26	Landornamides: Antiviral Ornithineâ€Containing Ribosomal Peptides Discovered through Genome Mining. Angewandte Chemie, 2020, 132, 11861-11866.	2.0	6
27	Structural and Biochemical Analysis of Proteinâ€“Protein Interactions Between the Acylâ€Carrier Protein and Product Template Domain. Angewandte Chemie, 2016, 128, 13199-13203.	2.0	3
28	Posttranslationally Acting Arginases Provide a Ribosomal Route to Nonâ€proteinogenic Ornithine Residues in Diverse Peptide Sequences. Angewandte Chemie, 2020, 132, 21626-21631.	2.0	1