

Jeremy R Lohman

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Substrate Enolate Intermediate and Mimic Captured in the Active Site of <i>Streptomyces coelicolor</i> Methylmalonyl-CoA Epimerase**. ChemBioChem, 2022, 23, .	2.6	1
2	Structure-Function Studies of Two Yeast Homing Endonucleases that Evolved to Cleave Identical Targets with Dissimilar Rates and Specificities. Journal of Molecular Biology, 2022, 434, 167550.	4.2	0
3	Acetyl-CoA Electron Density: Acyl-CoA Reactivity and Crystallographic Data. FASEB Journal, 2022, 36, .	0.5	0
4	Structures of LnmK, a Bifunctional Acyltransferase/Decarboxylase, with Substrate Analogues Reveal the Basis for Selectivity and Stereospecificity. Biochemistry, 2021, 60, 365-372.	2.5	7
5	The LnmK Bifunctional Acyltransferase/Decarboxylase Specifying (2 <i>R</i>)-Methylmalonyl-CoA and Employing Substrate-Assisted Catalysis for Polyketide Biosynthesis. Biochemistry, 2020, 59, 4143-4147.	2.5	5
6	Sulfonate/Nitro Bearing Methylmalonyl-Thioester Isosteres Applied to Methylmalonyl-CoA Decarboxylase Structure-Function Studies. Journal of the American Chemical Society, 2019, 141, 5121-5124.	13.7	16
7	PokMT1 from the Polyketomycin Biosynthetic Machinery of <i>Streptomyces diastatochromogenes</i> TÅ¼6028 Belongs to the Emerging Family of <i>C</i> -Methyltransferases That Act on CoA-Activated Aromatic Substrates. Biochemistry, 2018, 57, 1003-1011.	2.5	8
8	Structural Insights into the Free-Standing Condensation Enzyme SgcC5 Catalyzing Ester-Bond Formation in the Biosynthesis of the Eneidyne Antitumor Antibiotic C-1027. Biochemistry, 2018, 57, 3278-3288.	2.5	10
9	Crystal Structure of Thioesterase SgcE10 Supporting Common Polyene Intermediates in 9- and 10-Membered Eneidyne Core Biosynthesis. ACS Omega, 2017, 2, 5159-5169.	3.5	10
10	Strain Prioritization and Genome Mining for Eneidyne Natural Products. MBio, 2016, 7, .	4.1	89
11	Crystal Structures of SgcE6 and SgcC, the Two-Component Monooxygenase That Catalyzes Hydroxylation of a Carrier Protein-Tethered Substrate during the Biosynthesis of the Eneidyne Antitumor Antibiotic C-1027 in <i>Streptomyces globisporus</i> . Biochemistry, 2016, 55, 5142-5154.	2.5	18
12	Crystal structure of SgcJ, an NTF2-like superfamily protein involved in biosynthesis of the nine-membered enediyne antitumor antibiotic C-1027. Journal of Antibiotics, 2016, 69, 731-740.	2.0	10
13	Crystal Structure of the Zorbamycin-Binding Protein ZbmA, the Primary Self-Resistance Element in <i>Streptomyces flavoviridis</i> ATCC21892. Biochemistry, 2015, 54, 6842-6851.	2.5	9
14	Leinamycin E1 acting as an anticancer prodrug activated by reactive oxygen species. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 8278-8283.	7.1	45
15	C-S bond cleavage by a polyketide synthase domain. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 10359-10364.	7.1	39
16	Structural and evolutionary relationships of α -AT-less-type I polyketide synthase ketosynthases. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 12693-12698.	7.1	55
17	Eneidyne: Exploration of microbial genomics to discover new anticancer drug leads. Bioorganic and Medicinal Chemistry Letters, 2015, 25, 9-15.	2.2	55
18	The crystal structure of BlmI as a model for nonribosomal peptide synthetase peptidyl carrier proteins. Proteins: Structure, Function and Bioinformatics, 2014, 82, 1210-1218.	2.6	33

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19	Comparative Characterization of the Lactimidomycin and iso-Migrastatin Biosynthetic Machineries Revealing Unusual Features for Acyltransferase-less Type I Polyketide Synthases and Providing an Opportunity To Engineer New Analogues. <i>Biochemistry</i> , 2014, 53, 7854-7865.	2.5	22
20	Strain Prioritization for Natural Product Discovery by a High-Throughput Real-Time PCR Method. <i>Journal of Natural Products</i> , 2014, 77, 2296-2303.	3.0	75
21	Structure of the Myotonic Dystrophy Type 2 RNA and Designed Small Molecules That Reduce Toxicity. <i>ACS Chemical Biology</i> , 2014, 9, 538-550.	3.4	61
22	Enediyne Polyketide Synthases Stereoselectively Reduce the β^2 -Ketoacyl Intermediates to β^2 -Hydroxyacyl Intermediates in Enediyne Core Biosynthesis. <i>Organic Letters</i> , 2014, 16, 3958-3961.	4.6	15
23	Biosynthetic Potential-Based Strain Prioritization for Natural Product Discovery: A Showcase for Diterpenoid-Producing Actinomycetes. <i>Journal of Natural Products</i> , 2014, 77, 377-387.	3.0	45
24	Cycloheximide and Actiphenol Production in <i>Streptomyces</i> sp. YIM56141 Governed by Single Biosynthetic Machinery Featuring an Acyltransferase-less Type I Polyketide Synthase. <i>Organic Letters</i> , 2014, 16, 3072-3075.	4.6	54
25	Cloning and sequencing of the kedarcidin biosynthetic gene cluster from <i>Streptoalloteichus</i> sp. ATCC 53650 revealing new insights into biosynthesis of the enediyne family of antitumor antibiotics. <i>Molecular BioSystems</i> , 2013, 9, 478.	2.9	39
26	Post-Polyketide Synthase Steps in Iso-migrastatin Biosynthesis, Featuring Tailoring Enzymes with Broad Substrate Specificity. <i>Journal of the American Chemical Society</i> , 2013, 135, 2489-2492.	13.7	16
27	Structure of the Bifunctional Acyltransferase/Decarboxylase LnmK from the Leinamycin Biosynthetic Pathway Revealing Novel Activity for a Double-Hot-Dog Fold. <i>Biochemistry</i> , 2013, 52, 902-911.	2.5	31
28	A new member of the 4-methylideneimidazole-5-one-containing aminomutase family from the enediyne kedarcidin biosynthetic pathway. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 8069-8074.	7.1	16
29	4-Methylideneimidazole-5-One-Containing Aminomutases in Enediyne Biosynthesis. <i>Methods in Enzymology</i> , 2012, 516, 299-319.	1.0	8
30	The Missing C-17 O-Methyltransferase in Geldanamycin Biosynthesis. <i>Organic Letters</i> , 2011, 13, 3726-3729.	4.6	20
31	Atomic resolution structures of <i>Escherichia coli</i> and <i>Bacillus anthracis</i> malate synthase A: Comparison with isoform G and implications for structure-based drug discovery. <i>Protein Science</i> , 2008, 17, 1935-1945.	7.6	23
32	Kinetic Folding of <i>Haloferax volcanii</i> and <i>Escherichia coli</i> Dihydrofolate Reductases: Haloadaptation by Unfolded State Destabilization at High Ionic Strength. <i>Journal of Molecular Biology</i> , 2008, 376, 1451-1462.	4.2	14
33	The Effect of Salts on the Activity and Stability of <i>Escherichia coli</i> and <i>Haloferax volcanii</i> Dihydrofolate Reductases. <i>Journal of Molecular Biology</i> , 2002, 323, 327-344.	4.2	80