## Peter F Leadlay

List of Publications by Year in descending order

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228 papers

12,786 citations

61 h-index

19657

100 g-index

248 all docs 248 docs citations

times ranked

248

5581 citing authors

| #  | Article   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | An unusually large multifunctional polypeptide in the erythromycin-producing polyketide synthase of Saccharopolyspora erythraea. Nature, 1990, 348, 176-178.  | 27.8 | 610       |
| 2  | How coenzyme B12 radicals are generated: the crystal structure of methylmalonyl-coenzyme A mutase at 2 $\tilde{A}$ ¥ resolution. Structure, 1996, 4, 339-350.   | 3.3  | 493       |
| 3  | Combinatorial biosynthesis of reduced polyketides. Nature Reviews Microbiology, 2005, 3, 925-936.   | 28.6 | 417       |
| 4  | Complete genome sequence of the erythromycin-producing bacterium Saccharopolyspora erythraea NRRL23338. Nature Biotechnology, 2007, 25, 447-453.  | 17.5 | 348       |
| 5  | Giant plasmid-encoded polyketide synthases produce the macrolide toxin of Mycobacterium ulcerans.<br>Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 1345-1349.   | 7.1  | 345       |
| 6  | A chain initiation factor common to both modular and aromatic polyketide synthases. Nature, 1999, 401, 502-505.   | 27.8 | 254       |
| 7  | Organization of the biosynthetic gene cluster for rapamycin in Streptomyces hygroscopicus: Analysis of the enzymatic domains in the modular polyketide synthase. Gene, 1996, 169, 9-16.   | 2.2  | 243       |
| 8  | Divergent sequence motifs correlated with the substrate specificity of (methyl)malonylâ€CoA:acyl carrier protein transacylase domains in modular polyketide synthases. FEBS Letters, 1995, 374, 246-248.  | 2.8  | 227       |
| 9  | Engineering Broader Specificity into an Antibiotic-Producing Polyketide Synthase. Science, 1998, 279, 199-202.  | 12.6 | 214       |
| 10 | The Structure of Docking Domains in Modular Polyketide Synthases. Chemistry and Biology, 2003, 10, 723-731.   | 6.0  | 185       |
| 11 | A hybrid modular polyketide synthase obtained by domain swapping. Chemistry and Biology, 1996, 3, 833-839.  | 6.0  | 171       |
| 12 | Role of type II thioesterases: evidence for removal of short acyl chains produced by aberrant decarboxylation of chain extender units. Chemistry and Biology, 2001, 8, 207-220.   | 6.0  | 171       |
| 13 | 6-Deoxyerythronolide-B synthase 2 from Saccharopolyspora erythraea. Cloning of the structural gene, sequence analysis and inferred domain structure of the multifunctional enzyme. FEBS Journal, 1992, 204, 39-49.  | 0.2  | 164       |
| 14 | Cloning and sequence analysis of genes involved in erythromycin biosynthesis in Saccharopolyspora erythraea: sequence similarities between EryG and a family of S-adenosylmethionine-dependent methyltransferases. Molecular Genetics and Genomics, 1991, 230, 120-128. | 2.4  | 151       |
| 15 | Analysis of the biosynthetic gene cluster for the polyether antibiotic monensin in Streptomyces cinnamonensis and evidence for the role of monB and monC genes in oxidative cyclization. Molecular Microbiology, 2003, 49, 1179-1190.                                   | 2.5  | 144       |
| 16 | Organisation of the biosynthetic gene cluster for rapamycin in Streptomyces hygroscopicus: Analysis of genes flanking the polyketide synthase. Gene, 1996, 169, 1-7.  | 2.2  | 139       |
| 17 | Identification of DEBS 1, DEBS 2 and DEBS 3, the multienzyme polypeptides of the erythromycinâ€producing polyketide synthase from ⟨i⟩Saccharopolyspora erythraea⟨/i⟩. FEBS Letters, 1992, 304, 225-228.   | 2.8  | 135       |
| 18 | Recent advances in the field of bioactive tetronates. Natural Product Reports, 2014, 31, 1554-1584.   | 10.3 | 123       |

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| 19 | Combinatorial approaches to polyketide biosynthesis. Current Opinion in Chemical Biology, 1997, 1, 162-168.   | 6.1  | 121       |
| 20 | Increasing the efficiency of heterologous promoters in actinomycetes. Journal of Molecular Microbiology and Biotechnology, 2002, 4, 417-26.   | 1.0  | 119       |
| 21 | Prediction and Manipulation of the Stereochemistry of Enoylreduction in Modular Polyketide Synthases. Chemistry and Biology, 2008, 15, 1231-1240.   | 6.0  | 118       |
| 22 | Evidence for a double-helical structure for modular polyketide synthases. Nature Structural Biology, 1996, 3, 188-192.  | 9.7  | 112       |
| 23 | Active-site residue, domain and module swaps in modular polyketide synthases. Journal of Industrial Microbiology and Biotechnology, 2003, 30, 489-494.  | 3.0  | 112       |
| 24 | Evidence for the Role of the monB Genes in Polyether Ring Formation during Monensin Biosynthesis. Chemistry and Biology, 2006, 13, 453-460.   | 6.0  | 109       |
| 25 | A bacterial calcium-binding protein homologous to calmodulin. Nature, 1987, 329, 84-85.   | 27.8 | 108       |
| 26 | Analysis of seven genes from the eryAl –eryK region of the erythromycin biosynthetic gene cluster in Saccharopolyspora erythraea. Molecular Genetics and Genomics, 1997, 256, 239-251.  | 2.4  | 103       |
| 27 | Insights into Polyether Biosynthesis from Analysis of the Nigericin Biosynthetic Gene Cluster in Streptomyces sp. DSM4137. Chemistry and Biology, 2007, 14, 703-714.  | 6.0  | 103       |
| 28 | Molecular Basis of Celmer's Rules: Stereochemistry of Catalysis by Isolated Ketoreductase Domains from Modular Polyketide Synthases. Chemistry and Biology, 2005, 12, 1145-1153.  | 6.0  | 101       |
| 29 | Mycolactones: immunosuppressive and cytotoxic polyketides produced by aquatic mycobacteria.<br>Natural Product Reports, 2008, 25, 447.  | 10.3 | 101       |
| 30 | Biosynthesis of the immunosuppressants FK506, FK520, and rapamycin involves a previously undescribed family of enzymes acting on chorismate. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 4776-4781. | 7.1  | 99        |
| 31 | Targeted gene inactivation for the elucidation of deoxysugar biosynthesis in the erythromycin producer Saccharopolyspora erythraea. Molecular Genetics and Genomics, 1998, 257, 542-553.  | 2.4  | 96        |
| 32 | Knowledge-based design of bimodular and trimodular polyketide synthases based on domain and module swaps: a route to simple statin analogues. Chemistry and Biology, 1999, 6, 731-741.  | 6.0  | 96        |
| 33 | Directed Mutagenesis Alters the Stereochemistry of Catalysis by Isolated Ketoreductase Domains from the Erythromycin Polyketide Synthase. Chemistry and Biology, 2006, 13, 277-285.   | 6.0  | 96        |
| 34 | The Molecular Basis of Celmer's Rules: The Stereochemistry of the Condensation Step in Chain Extension on the Erythromycin Polyketide Synthaseâ€. Biochemistry, 1997, 36, 13849-13855.  | 2.5  | 93        |
| 35 | Mutasynthesis of Rapamycin Analogues through the Manipulation of a Gene Governing Starter Unit<br>Biosynthesis. Angewandte Chemie - International Edition, 2005, 44, 4757-4760.   | 13.8 | 93        |
| 36 | Site-Specific Recombination Strategies for Engineering Actinomycete Genomes. Applied and Environmental Microbiology, 2012, 78, 1804-1812.   | 3.1  | 88        |

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| 37 | Accumulation of anE,E,E-Triene by the Monensin-Producing Polyketide Synthase when Oxidative Cyclization is Blocked. Angewandte Chemie - International Edition, 2005, 44, 7075-7078.                                       | 13.8 | 86        |
| 38 | Mutational Biosynthesis of Novel Rapamycins by a Strain of <i>Streptomyces hygroscopicus</i> NRRL 5491 Disrupted in <i>rapL</i> , Encoding a Putative Lysine Cyclodeaminase. Journal of Bacteriology, 1998, 180, 809-814. | 2.2  | 85        |
| 39 | Engineering specificity of starter unit selection by the erythromycinâ€producing polyketide synthase.<br>Molecular Microbiology, 2002, 43, 1215-1225.   | 2.5  | 83        |
| 40 | Biosynthesis of the Angiogenesis Inhibitor Borrelidin by Streptomyces parvulus TÃ $\frac{1}{4}$ 4055. Chemistry and Biology, 2004, 11, 87-97.   | 6.0  | 82        |
| 41 | A defined system for hybrid macrolide biosynthesis in <i>Saccharopolyspora erythraea</i> Microbiology, 2000, 36, 391-401.   | 2.5  | 81        |
| 42 | Engineering of complex polyketide biosynthesis – insights from sequencing of the monensin biosynthetic gene cluster. Journal of Industrial Microbiology and Biotechnology, 2001, 27, 360-367.                             | 3.0  | 81        |
| 43 | Mycolactone Diffuses from Mycobacterium ulcerans–Infected Tissues and Targets Mononuclear Cells in Peripheral Blood and Lymphoid Organs. PLoS Neglected Tropical Diseases, 2008, 2, e325.                                 | 3.0  | 80        |
| 44 | Analysis of eryBI, eryBIII and eryBVII from the erythromycin biosynthetic gene cluster in Saccharopolyspora erythraea. Molecular Genetics and Genomics, 1998, 258, 78-88.   | 2.4  | 79        |
| 45 | Organization of the biosynthetic gene cluster for the macrolide concanamycin A in Streptomyces neyagawaensis ATCC 27449. Microbiology (United Kingdom), 2005, 151, 3161-3169.   | 1.8  | 79        |
| 46 | Biosynthesis of the Putative Siderophore Erythrochelin Requires Unprecedented Crosstalk between Separate Nonribosomal Peptide Gene Clusters. Chemistry and Biology, 2010, 17, 160-173.                                    | 6.0  | 79        |
| 47 | In vitro reconstruction of tetronate RK-682 biosynthesis. Nature Chemical Biology, 2010, 6, 99-101.   | 8.0  | 79        |
| 48 | Mycolactone activation of Wiskott-Aldrich syndrome proteins underpins Buruli ulcer formation. Journal of Clinical Investigation, 2013, 123, 1501-1512.  | 8.2  | 79        |
| 49 | Engineering a polyketide with a longer chain by insertion of an extra module into the erythromycin-producing polyketide synthase. Chemistry and Biology, 2001, 8, 475-485.  | 6.0  | 78        |
| 50 | Construction of new vectors for high-level expression in actinomycetes. Gene, 1998, 216, 215-223.   | 2.2  | 77        |
| 51 | Polyketide synthesis in vitro on a modular polyketide synthase. Chemistry and Biology, 1995, 2, 583-589.  | 6.0  | 75        |
| 52 | Common Evolutionary Origin for the Unstable Virulence Plasmid pMUM Found in Geographically Diverse Strains of Mycobacterium ulcerans. Journal of Bacteriology, 2005, 187, 1668-1676.                                      | 2.2  | 74        |
| 53 | Novel octaketide macrolides related to 6-deoxyerythronolide B provide evidence for iterative operation of the erythromycin polyketide synthase. Chemistry and Biology, 2000, 7, 111-117.                                  | 6.0  | 73        |
| 54 | Analysis of the Tetronomycin Gene Cluster: Insights into the Biosynthesis of a Polyether Tetronate Antibiotic. ChemBioChem, 2008, 9, 1136-1145.   | 2.6  | 72        |

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| 55 | The Pipecolate-Incorporating Enzyme for the Biosynthesis of the Immunosuppressant Rapamycin -<br>Nucleotide Sequence Analysis, Disruption and Heterologous Expression of Rap P from Streptomyces<br>Hygroscopicus. FEBS Journal, 1997, 247, 526-534. | 0.2  | 69        |
| 56 | Biosynthesis of the angiogenesis inhibitor borrelidin by Streptomyces parvulus Tý44055: insights into nitrile formationâ€. Molecular Microbiology, 2004, 52, 1745-1756.  | 2.5  | 67        |
| 57 | Glycerylâ€∢i>Sà€Acyl Carrier Protein as an Intermediate in the Biosynthesis of Tetronate Antibiotics.<br>ChemBioChem, 2008, 9, 150-156.  | 2.6  | 66        |
| 58 | Diversity oriented biosynthesis via accelerated evolution of modular gene clusters. Nature Communications, 2017, 8, 1206.  | 12.8 | 66        |
| 59 | Identification of a Phosphopantetheinyl Transferase for Erythromycin Biosynthesis in Saccharopolyspora erythraea. ChemBioChem, 2004, 5, 116-125.   | 2.6  | 64        |
| 60 | Iterative Mechanism of Macrodiolide Formation in the Anticancer Compound Conglobatin. Chemistry and Biology, 2015, 22, 745-754.  | 6.0  | 64        |
| 61 | Novel Erythromycins from a Recombinant Saccharopolyspora erythraea Strain NRRL 2338 pIG1. I. Fermentation, Isolation and Biological Activity Journal of Antibiotics, 1998, 51, 1029-1034.  | 2.0  | 62        |
| 62 | An acyl-carrier-protein - thioesterase domain from the 6-deoxyerythronolide B synthase of Saccharopolyspora erythraea. High-level production, purification and characterisation in Escherichia coli. FEBS Journal, 1991, 195, 823-830.               | 0.2  | 61        |
| 63 | Evidence from engineered gene fusions for the repeated use of a module in a modular polyketide synthase. Chemical Communications, 2003, , 2780-2782.   | 4.1  | 61        |
| 64 | Analysis of Specific Mutants in the Lasalocid Gene Cluster: Evidence for Enzymatic Catalysis of a Disfavoured Polyether Ring Closure. ChemBioChem, 2008, 9, 2967-2975.   | 2.6  | 61        |
| 65 | Skipping in a Hybrid Polyketide Synthase. Chemistry and Biology, 2002, 9, 781-787.   | 6.0  | 60        |
| 66 | Delineating the Biosynthesis of Gentamicin X2, the Common Precursor of the Gentamicin C Antibiotic Complex. Chemistry and Biology, 2015, 22, 251-261.  | 6.0  | 60        |
| 67 | An ABC-transporter from Streptomyces longisporoflavus confers resistance to the polyether-ionophore antibiotic tetronasin. Molecular Microbiology, 1994, 11, 777-785.  | 2.5  | 59        |
| 68 | Biosynthetic Gene Cluster of the Glycopeptide Antibiotic Teicoplanin. Chemistry and Biology, 2004, 11, 107-119.  | 6.0  | 59        |
| 69 | A Lateâ€Stage Intermediate in Salinomycin Biosynthesis Is Revealed by Specific Mutation in the Biosynthetic Gene Cluster. ChemBioChem, 2012, 13, 66-71.  | 2.6  | 59        |
| 70 | The Gene Cluster for Fluorometabolite Biosynthesis in Streptomyces cattleya: A Thioesterase Confers Resistance to Fluoroacetyl-Coenzyme A. Chemistry and Biology, 2006, 13, 475-484.   | 6.0  | 58        |
| 71 | Evidence that a Novel Thioesterase is Responsible for Polyketide Chain Release during Biosynthesis of the Polyether Ionophore Monensin. ChemBioChem, 2006, 7, 1435-1442.   | 2.6  | 57        |
| 72 | Biosynthetic Gene Cluster of the Glycopeptide Antibiotic TeicoplaninCharacterization of Two Glycosyltransferases and the Key Acyltransferase. Chemistry and Biology, 2004, 11, 107-119.  | 6.0  | 56        |

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| 73 | Heterologous expression in Escherichia coli of an intact multienzyme component of the erythromycin-producing polyketide synthase. FEBS Journal, 1993, 214, 305-311.  | 0.2  | 55        |
| 74 | Deciphering the genetic basis for polyketide variation among mycobacteria producing mycolactones. BMC Genomics, 2008, 9, 462.  | 2.8  | 55        |
| 75 | Stabilization of Radical Intermediates by an Active-Site Tyrosine Residue in Methylmalonyl-CoA<br>Mutaseâ€,‡. Biochemistry, 1998, 37, 14386-14393.   | 2.5  | 53        |
| 76 | High-Throughput Mutagenesis to Evaluate Models of Stereochemical Control in Ketoreductase Domains from the Erythromycin Polyketide Synthase. Chemistry and Biology, 2006, 13, 287-296.   | 6.0  | 53        |
| 77 | A Polylinker Approach to Reductive Loop Swaps in Modular Polyketide Synthases. ChemBioChem, 2008, 9, 2740-2749.  | 2.6  | 53        |
| 78 | Protection of Radical Intermediates at the Active Site of Adenosylcobalamin-Dependent Methylmalonyl-CoA Mutaseâ€,‡. Biochemistry, 2000, 39, 9213-9221.   | 2.5  | 52        |
| 79 | Mutagenesis of a Modular Polyketide Synthase Enoylreductase Domain Reveals Insights into Catalysis and Stereospecificity. ACS Chemical Biology, 2010, 5, 829-838.  | 3.4  | 50        |
| 80 | Molecular basis of celmer's rules: the role of two ketoreductase domains in the control of chirality by the erythromycin modular polyketide synthase. Chemistry and Biology, 1999, 6, 189-195.   | 6.0  | 49        |
| 81 | A Novel Mycolactone from a Clinical Isolate of Mycobacterium ulcerans Provides Evidence for Additional Toxin Heterogeneity as a Result of Specific Changes in the Modular Polyketide Synthase. ChemBioChem, 2005, 6, 643-648.  | 2.6  | 49        |
| 82 | The thioesterase of the erythromycin-producing polyketide synthase: mechanistic studies in vitro to investigate its mode of action and substrate specificity. Journal of the Chemical Society Chemical Communications, 1995, , 1519.   | 2.0  | 48        |
| 83 | Engineering of a minimal modular polyketide synthase, and targeted alteration of the stereospecificity of polyketide chain extension. Chemistry and Biology, 1998, 5, 407-412.   | 6.0  | 48        |
| 84 | A Common Origin for Guanidinobutanoate Starter Units in Antifungal Natural Products. Angewandte Chemie - International Edition, 2013, 52, 13096-13099.   | 13.8 | 48        |
| 85 | The Thioesterase of the Erythromycin-Producing Polyketide Synthase: Influence of Acyl Chain<br>Structure on the Mode of Release of Substrate Analogues from the Acyl Enzyme Intermediates.<br>Angewandte Chemie - International Edition, 1998, 37, 1437-1440,<br>Identification using LC-MSn of co-metabolites in the biosynthesis of the polyketide toxin mycolactone                                   | 13.8 | 47        |
| 86 | by a clinical isolate of Mycobacterium ulceransElectronic supplementary information (ESI) available: Experimental procedures and ESI-CID-MS/MS spectra of mycolactone and the five co-metabolites; MS3 spectrum of m/z 661 from the MS/MS of m/z 749; scheme showing the losses of mass 88 (C4H8O2) during the MS/MS of m/z 749 and the MS3 of m/z 661. See http://www.rsc.org/suppdata/cc/b3/b308163j/. | 4.1  | 47        |
| 87 | Chemical Communications, 2003, , 2822. Rapamycin biosynthesis: elucidation of gene product function. Organic and Biomolecular Chemistry, 2006, 4, 3565.  | 2.8  | 47        |
| 88 | Engineering of the Spinosyn PKS:Â Directing Starter Unit Incorporation. Journal of Natural Products, 2006, 69, 1702-1710.  | 3.0  | 47        |
| 89 | Chain initiation on the soraphen-producing modular polyketide synthase from Sorangium cellulosum. Chemistry and Biology, 2001, 8, 1197-1208.   | 6.0  | 46        |
| 90 | Stereochemistry of Catalysis by the Ketoreductase Activity in the First Extension Module of the Erythromycin Polyketide Synthaseâ€. Biochemistry, 2002, 41, 2719-2726.   | 2.5  | 46        |

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| 91  | Substrate specificity of the acyl transferase domains of EpoC from the epothilone polyketide synthase. Organic and Biomolecular Chemistry, 2008, 6, 500-506.   | 2.8  | 46        |
| 92  | New Rapamycin Derivatives by Precursor-Directed Biosynthesis. ChemBioChem, 2004, 5, 535-538.   | 2.6  | 45        |
| 93  | Evaluating precursor-directed biosynthesis towards novel erythromycins through in vitro studies on a bimodular polyketide synthase. Chemistry and Biology, 1998, 5, 743-754.   | 6.0  | 44        |
| 94  | Biosynthesis of the Angiogenesis Inhibitor Borrelidin by Streptomyces parvulus $T\tilde{A}^{1/4}$ 4055Cluster Analysis and Assignment of Functions. Chemistry and Biology, 2004, 11, 87-97.  | 6.0  | 44        |
| 95  | The putative elaiophylin biosynthetic gene cluster in Streptomyces sp. DSM4137 is adjacent to genes encoding adenosylcobalamin-dependent methylmalonyl CoA mutase and to genes for synthesis of cobalamin. Journal of Biotechnology, 2004, 113, 55-68. | 3.8  | 44        |
| 96  | Unusual Acetylation–Elimination in the Formation of Tetronate Antibiotics. Angewandte Chemie - International Edition, 2013, 52, 5785-5788.   | 13.8 | 44        |
| 97  | Induction, purification and characterisation of acyl-ACP thioesterase from developing seeds of oil seed rape (Brassica napus). Plant Molecular Biology, 1992, 20, 763-780.   | 3.9  | 42        |
| 98  | Molecular basis of Celmer's rules: role of the ketosynthase domain in epimerisation and demonstration that ketoreductase domains can have altered product specificity with unnatural substrates. Chemistry and Biology, 2001, 8, 329-340.              | 6.0  | 42        |
| 99  | Stereoselectivity of Isolated Dehydratase Domains of the Borrelidin Polyketide Synthase: Implications for <i>cis</i> ) Double Bond Formation. ChemBioChem, 2011, 12, 1011-1014.  | 2.6  | 42        |
| 100 | Specificity and Promiscuity at the Branch Point in Gentamicin Biosynthesis. Chemistry and Biology, 2014, 21, 608-618.  | 6.0  | 42        |
| 101 | Direct production of ivermectin-like drugs after domain exchange in the avermectin polyketide synthase of Streptomyces avermitilis ATCC31272. Organic and Biomolecular Chemistry, 2003, 1, 2840.   | 2.8  | 41        |
| 102 | Isolation and Characterization of Pre-rapamycin, the First Macrocyclic Intermediate in the Biosynthesis of the Immunosuppressant Rapamycin byS. hygroscopicus. Angewandte Chemie - International Edition, 2004, 43, 2551-2553.                         | 13.8 | 41        |
| 103 | Methyltransferases of gentamicin biosynthesis. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 1340-1345.  | 7.1  | 41        |
| 104 | Insights into Lasalocidâ€A Ring Formation by Chemical Chain Termination Inâ€Vivo. Angewandte Chemie - International Edition, 2011, 50, 11930-11933.  | 13.8 | 40        |
| 105 | Enzymology of Pyran Ringâ€A Formation in Salinomycin Biosynthesis. Angewandte Chemie - International Edition, 2015, 54, 13622-13625.   | 13.8 | 40        |
| 106 | Origin and True Nature of the Starter Unit for the Rapamycin Polyketide Synthase. Angewandte Chemie - International Edition, 2001, 40, 777-779.  | 13.8 | 39        |
| 107 | Biosynthesis of the angiogenesis inhibitor borrelidin: directed biosynthesis of novel analogues. Chemical Communications, 2006, , 2341-2343.   | 4.1  | 38        |
| 108 | Separation of anti-angiogenic and cytotoxic activities of borrelidin by modification at the C17 side chain. Bioorganic and Medicinal Chemistry Letters, 2006, 16, 5814-5817.   | 2.2  | 38        |

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| 109 | Broadening substrate specificity of a chain-extending ketosynthase through a single active-site mutation. Chemical Communications, 2016, 52, 8373-8376.  | 4.1  | 38        |
| 110 | Tritium Isotope Effects in Adenosylcobalamin-Dependent Methylmalonyl-CoA Mutaseâ€. Biochemistry, 1996, 35, 11791-11796.  | 2.5  | 36        |
| 111 | Heterologous expression in Saccharopolyspora erythraea of a pentaketide synthase derived from the spinosyn polyketide synthaseElectronic supplementary information (ESI) available: Further details of the construction of pCJR308, the fermentation of BIOT-0966 and the isolation of pentaketide lactone, 3, and figures showing the 13C NMR and 1H COSY spectra of 3. See | 2.8  | 36        |
| 112 | A Novel Erythromycin, 6-Desmethyl Erythromycin D, Made by Substituting an Acyltransferase Domain of the Erythromycin Polyketide Synthase. Journal of Antibiotics, 2003, 56, 543-551.   | 2.0  | 36        |
| 113 | Structure elucidation of a novel family of mycolactone toxins from the frog pathogen Mycobacterium sp. MU128FXT by mass spectrometry. Chemical Communications, 2005, , 4306.   | 4.1  | 36        |
| 114 | A mutant generated by expression of an engineered DEBS 1 protein from the erythromycin-producing polyketide synthase (PKS) in Streptomyces coelicolor produces the triketide as a lactone, but the major product is the nor-analogue derived from acetate as starter acid. Journal of the Chemical Society Chemical Communications, 1995, , 1517.                            | 2.0  | 35        |
| 115 | Structural elucidation studies of erythromycins by electrospray tandem mass spectrometry. Rapid Communications in Mass Spectrometry, 1999, 13, 242-246.  | 1.5  | 35        |
| 116 | A Novel Mycolactone Toxin Obtained by Biosynthetic Engineering. ChemBioChem, 2007, 8, 2043-2047.   | 2.6  | 35        |
| 117 | Organization of the biosynthetic gene cluster in Streptomyces sp. DSM 4137 for the novel neuroprotectant polyketide meridamycin. Microbiology (United Kingdom), 2006, 152, 3507-3515.  | 1.8  | 34        |
| 118 | Intermediates Released from a Polyether-Producing Polyketide Synthase Provide Insight into the Mechanism of Oxidative Cyclization. Angewandte Chemie - International Edition, 2003, 42, 4475-4478.   | 13.8 | 33        |
| 119 | Macrodiolide Formation by the Thioesterase of a Modular Polyketide Synthase. Angewandte Chemie -<br>International Edition, 2015, 54, 5232-5235.  | 13.8 | 33        |
| 120 | Homology modeling of human methylmalonylâ€CoA mutase: A structural basis for point mutations causing methylmalonic aciduria. Protein Science, 1996, 5, 1922-1927.  | 7.6  | 32        |
| 121 | The Nature of the Starter Unit for the Rapamycin Polyketide Synthase. Angewandte Chemie<br>International Edition in English, 1996, 35, 2249-2251.  | 4.4  | 32        |
| 122 | Improved Catalytic Activity of a Purified Multienzyme from a Modular Polyketide Synthase after Coexpression with <i>Streptomyces</i> Chaperonins in <i>Escherichia coli</i> ChemBioChem, 2008, 9, 2962-2966.   | 2.6  | 32        |
| 123 | Synthetic Chain Terminators Offâ€Load Intermediates from a Type I Polyketide Synthase. ChemBioChem, 2010, 11, 539-546.   | 2.6  | 32        |
| 124 | Evaluating Ketoreductase Exchanges as a Means of Rationally Altering Polyketide Stereochemistry. ChemBioChem, 2015, 16, 1357-1364.   | 2.6  | 32        |
| 125 | Origin of Starter Units for Erythromycin Biosynthesisâ€. Biochemistry, 1998, 37, 11012-11017.  | 2.5  | 31        |
| 126 | Engineered biosynthesis of novel spinosyns bearing altered deoxyhexose substituentsElectronic supplementary information (ESI) available: 1H and 13C NMR data for compounds 5–8. See http://www.rsc.org/suppdata/cc/b2/b200536k/. Chemical Communications, 2002, , 618-619.   | 4.1  | 31        |

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| 127 | Parallel pathways for oxidation of 14-membered polyketide macrolactones in Saccharopolyspora erythraea. Molecular Microbiology, 2002, 44, 771-781.                                       | 2.5  | 31        |
| 128 | Insights into the stereospecificity of ketoreduction in a modular polyketide synthase. Organic and Biomolecular Chemistry, 2011, 9, 2053.  | 2.8  | 30        |
| 129 | A small, discrete acyl carrier protein is involved in de novo fatty acid biosynthesis inStreptomyces erythraeus. FEBS Letters, 1987, 224, 133-136.                                       | 2.8  | 29        |
| 130 | Biosynthesis of tetronasin: Part 6. Preparation of structural analogues of the diketide and triketide biosynthetic precursors to tetronasin. Tetrahedron Letters, 1996, 37, 3515-3518.   | 1.4  | 29        |
| 131 | New erythromycin derivatives from Saccharopolyspora erythraea using sugar O-methyltransferases from the spinosyn biosynthetic gene cluster. Molecular Microbiology, 2008, 41, 1223-1231. | 2.5  | 29        |
| 132 | Engineered biosynthesis of hybrid macrolide polyketides containing d-angolosamine and d-mycaminose moieties. Organic and Biomolecular Chemistry, 2008, 6, 3315.                          | 2.8  | 29        |
| 133 | In vivo trapping of polyketide intermediates from an assembly line synthase using malonyl carba(dethia)-N-acetyl cysteamines. Chemical Communications, 2011, 47, 3460.                   | 4.1  | 29        |
| 134 | Structure of the Glycosyltransferase EryCIII in Complex with its Activating P450 Homologue EryCII. Journal of Molecular Biology, 2012, 415, 92-101.                                      | 4.2  | 29        |
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