Peter F Leadlay

List of Publications by Year
in descending order

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228 papers	12,786 citations	19657 61 h-index	32842 100 g-index
248 all docs	248 docs citations	248 times ranked	5581 citing authors

#	Article	IF	Citations
1	Efophylins A and B, Two C₂-Asymmetric Macrodiolide Immunosuppressants from Streptomyces malaysiensis. Journal of Natural Products, 2021, 84, 1579-1586.	3.0	7
2	Mechanistic Insights into Dideoxygenation in Gentamicin Biosynthesis. ACS Catalysis, 2021, 11, 12274-12283.	11.2	5
3	The biosynthetic pathway to tetromadurin (SF2487/A80577), a polyether tetronate antibiotic. PLoS ONE, 2020, 15, e0239054.	2.5	7
4	Crossâ€Module Enoylreduction in the Azalomycinâ€...F Polyketide Synthase. Angewandte Chemie, 2020, 132, 22926-22930.	2.0	0
5	Crossâ€Module Enoylreduction in the Azalomycinâ€...F Polyketide Synthase. Angewandte Chemie - International Edition, 2020, 59, 22738-22742.	13.8	8
6	The crystal structure of AjiA1 reveals a novel structural motion mechanism in the adenylate-forming enzyme family. Acta Crystallographica Section D: Structural Biology, 2020, 76, 1201-1210.	2.3	2
7	Biosynthesis of depsipeptides with a 3-hydroxybenzoate moiety and selective anticancer activities involves a chorismatase. Journal of Biological Chemistry, 2020, 295, 5509-5518.	3.4	12
8	The biosynthetic pathway to tetromadurin (SF2487/A80577), a polyether tetronate antibiotic. , 2020, 15, e0239054.		0
9	The biosynthetic pathway to tetromadurin (SF2487/A80577), a polyether tetronate antibiotic. , 2020, 15, e0239054.		0
10	The biosynthetic pathway to tetromadurin (SF2487/A80577), a polyether tetronate antibiotic. , 2020, 15, e0239054.		0
11	The biosynthetic pathway to tetromadurin (SF2487/A80577), a polyether tetronate antibiotic. , 2020, 15, e0239054.		0
12	Sarpeptins A and B, Lipopeptides Produced by Streptomyces sp. KO-7888 Overexpressing a Specific SARP Regulator. Journal of Natural Products, 2019, 82, 2144-2151.	3.0	10
13	C-Nucleoside Formation in the Biosynthesis of the Antifungal Malayamycin A. Cell Chemical Biology, 2019, 26, 493-501.e5.	5.2	21
14	The biosynthetic pathway to ossamycin, a macrocyclic polyketide bearing a spiroacetal moiety. PLoS ONE, 2019, 14, e0215958.	2.5	14
15	Crystal Structure of GenD2, an NAD-Dependent Oxidoreductase Involved in the Biosynthesis of Gentamicin. ACS Chemical Biology, 2019, 14, 925-933.	3.4	10
16	Unexpected enzyme-catalysed [4+2] cycloaddition and rearrangement in polyether antibiotic biosynthesis. Nature Catalysis, 2019, 2, 1045-1054.	34.4	20
17	Hidden Specificities in Enzyme Catalysis: Structural Basis of Substrate Structureâ€Selectivity Relationship of a Ketoreductase. ChemBioChem, 2019, 20, 1150-1154.	2.6	6
18	Methyltransferases of gentamicin biosynthesis. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 1340-1345.	7.1	41

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19	A vitamin K-dependent carboxylase orthologue is involved in antibiotic biosynthesis. Nature Catalysis, 2018, 1, 977-984.	34.4	15
20	Draft Genome Sequence of the Fungus Penicillium brasilianum (Strain LaBioMMi 136), a Plant Endophyte from Melia azedarach. Microbiology Resource Announcements, 2018, 7, .	0.6	8
21	Directed Accumulation of Anticancer Depsipeptides by Characterization of Neoantimycins Biosynthetic Pathway and an NADPH-Dependent Reductase. ACS Chemical Biology, 2018, 13, 2153-2160.	3.4	23
22	The polyketide backbone of thiolactomycin is assembled by an unusual iterative polyketide synthase. Chemical Communications, 2017, 53, 2182-2185.	4.1	23
23	Chemical probing of thiotetronate bio-assembly. Chemical Communications, 2017, 53, 1912-1915.	4.1	12
24	Isoafricanol synthase from Streptomyces malaysiensis. Organic and Biomolecular Chemistry, 2017, 15, 2353-2358.	2.8	16
25	An Iterative Module in the Azalomycinâ€...F Polyketide Synthase Contains a Switchable Enoylreductase Domain. Angewandte Chemie - International Edition, 2017, 56, 5503-5506.	13.8	27
26	An Iterative Module in the Azalomycinâ€...F Polyketide Synthase Contains a Switchable Enoylreductase Domain. Angewandte Chemie, 2017, 129, 5595-5598.	2.0	8
27	Diversity oriented biosynthesis via accelerated evolution of modular gene clusters. Nature Communications, 2017, 8, 1206.	12.8	66
28	Structural Basis of the Selectivity of GenN, an Aminoglycoside N-Methyltransferase Involved in Gentamicin Biosynthesis. ACS Chemical Biology, 2017, 12, 2779-2787.	3.4	16
29	Sulfation and amidinohydrolysis in the biosynthesis of giant linear polyenes. Beilstein Journal of Organic Chemistry, 2017, 13, 2408-2415.	2.2	8
30	Evidence for an iterative module in chain elongation on the azalomycin polyketide synthase. Beilstein Journal of Organic Chemistry, 2016, 12, 2164-2172.	2.2	21
31	Insights into 6â€Methylsalicylic Acid Bioâ€assembly by Using Chemical Probes. Angewandte Chemie - International Edition, 2016, 55, 3463-3467.	13.8	26
32	An Efficient Method To Generate Gene Deletion Mutants of the Rapamycin-Producing Bacterium Streptomyces iranensis HM 35. Applied and Environmental Microbiology, 2016, 82, 3481-3492.	3.1	13
33	An Amidinohydrolase Provides the Missing Link in the Biosynthesis of Amino Marginolactone Antibiotics. Angewandte Chemie - International Edition, 2016, 55, 1118-1123.	13.8	29
34	Broadening substrate specificity of a chain-extending ketosynthase through a single active-site mutation. Chemical Communications, 2016, 52, 8373-8376.	4.1	38
35	A Flavin-Dependent Decarboxylaseâ€“Dehydrogenaseâ€“Monooxygenase Assembles the Warhead of Î±,Î²-Epoxyketone Proteasome Inhibitors. Journal of the American Chemical Society, 2016, 138, 4342-4345.	13.7	24
36	Insights into 6â€Methylsalicylic Acid Bioâ€assembly by Using Chemical Probes. Angewandte Chemie, 2016, 128, 3524-3528.	2.0	8

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37	An Amidinohydrolase Provides the Missing Link in the Biosynthesis of Amino Marginolactone Antibiotics. Angewandte Chemie, 2016, 128, 1130-1135.	2.0	2
38	Enzymology of Pyran Ringâ€…A Formation in Salinomycin Biosynthesis. Angewandte Chemie, 2015, 127, 13826-13829.	2.0	11
39	Enzymology of Pyran Ringâ€…A Formation in Salinomycin Biosynthesis. Angewandte Chemie - International Edition, 2015, 54, 13622-13625.	13.8	40
40	Evaluating Ketoreductase Exchanges as a Means of Rationally Altering Polyketide Stereochemistry. ChemBioChem, 2015, 16, 1357-1364.	2.6	32
41	Macrodiolide Formation by the Thioesterase of a Modular Polyketide Synthase. Angewandte Chemie, 2015, 127, 5321-5324.	2.0	7
42	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
43	Macrodiolide Formation by the Thioesterase of a Modular Polyketide Synthase. Angewandte Chemie - International Edition, 2015, 54, 5232-5235.	13.8	33
44	Iterative Mechanism of Macrodiolide Formation in the Anticancer Compound Conglobatin. Chemistry and Biology, 2015, 22, 745-754.	6.0	64
45	Synthesis of complex intermediates for the study of a dehydratase from borrelidin biosynthesis. Beilstein Journal of Organic Chemistry, 2014, 10, 634-640.	2.2	10
46	Specificity and Promiscuity at the Branch Point in Gentamicin Biosynthesis. Chemistry and Biology, 2014, 21, 608-618.	6.0	42
47	Uncovering the origin of Z-configured double bonds in polyketides: intermediate E-double bond formation during borrelidin biosynthesis. Chemical Science, 2014, 5, 3563-3567.	7.4	27
48	Recent advances in the field of bioactive tetronates. Natural Product Reports, 2014, 31, 1554-1584.	10.3	123
49	Chemical Probes for the Functionalization of Polyketide Intermediates. Angewandte Chemie - International Edition, 2014, 53, 11944-11949.	13.8	27
50	Enzyme assembly line pictured. Nature, 2014, 510, 482-483.	27.8	7
51	Siteâ€Specific Modification of the Anticancer and Antituberculosis Polyether Salinomycin by Biosynthetic Engineering. ChemBioChem, 2014, 15, 2081-2085.	2.6	17
52	Intermediates in monensin biosynthesis: A late step in biosynthesis of the polyether ionophore monensin is crucial for the integrity of cation binding. Beilstein Journal of Organic Chemistry, 2014, 10, 361-368.	2.2	22
53	A Common Origin for Guanidinobutanoate Starter Units in Antifungal Natural Products. Angewandte Chemie - International Edition, 2013, 52, 13096-13099.	13.8	48
54	Unusual Acetylationâ€“Elimination in the Formation of Tetronate Antibiotics. Angewandte Chemie - International Edition, 2013, 52, 5785-5788.	13.8	44

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55	Mycolactone activation of Wiskott-Aldrich syndrome proteins underpins Buruli ulcer formation. Journal of Clinical Investigation, 2013, 123, 1501-1512.	8.2	79
56	The Cell Wall-Associated Mycolactone Polyketide Synthases Are Necessary but Not Sufficient for Mycolactone Biosynthesis. PLoS ONE, 2013, 8, e70520.	2.5	18
57	Site-Specific Recombination Strategies for Engineering Actinomycete Genomes. Applied and Environmental Microbiology, 2012, 78, 1804-1812.	3.1	88
58	Structure of the Glycosyltransferase EryCIII in Complex with its Activating P450 Homologue EryCII. Journal of Molecular Biology, 2012, 415, 92-101.	4.2	29
59	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
60	Insights into the stereospecificity of ketoreduction in a modular polyketide synthase. Organic and Biomolecular Chemistry, 2011, 9, 2053.	2.8	30
61	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
62	Borrelidin modulates the alternative splicing of VEGF in favour of anti-angiogenic isoforms. Chemical Science, 2011, 2, 273-278.	7.4	25
63	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
64	Insights into Lasalocidâ€...A Ring Formation by Chemical Chain Termination Inâ€...Vivo. Angewandte Chemie - International Edition, 2011, 50, 11930-11933.	13.8	40
65	Stereoselectivity of Isolated Dehydratase Domains of the Borrelidin Polyketide Synthase: Implications for cis Double Bond Formation. ChemBioChem, 2011, 12, 1011-1014.	2.6	42
66	An Additional Dehydrataseâ€Like Activity is Required for Lankacidin Antibiotic Biosynthesis. ChemBioChem, 2011, 12, 2408-2412.	2.6	17
67	Synthetic Chain Terminators Offâ€Load Intermediates from a Type I Polyketide Synthase. ChemBioChem, 2010, 11, 539-546.	2.6	32
68	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
69	In vitro reconstruction of tetronate RK-682 biosynthesis. Nature Chemical Biology, 2010, 6, 99-101.	8.0	79
70	Structural Basis for the Activity and Substrate Specificity of Fluoroacetyl-CoA Thioesterase FlK. Journal of Biological Chemistry, 2010, 285, 22495-22504.	3.4	24
71	Mutagenesis of a Modular Polyketide Synthase Enoylreductase Domain Reveals Insights into Catalysis and Stereospecificity. ACS Chemical Biology, 2010, 5, 829-838.	3.4	50
72	Robust reporter system based on chalcone synthase rppA gene from Saccharopolyspora erythraea. Journal of Microbiological Methods, 2010, 83, 111-119.	1.6	16

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73	The changing patterns of covalent active site occupancy during catalysis on a modular polyketide synthase multienzyme revealed by ionâ€trap mass spectrometry. FEBS Journal, 2009, 276, 7057-7069.	4.7	11
74	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
75	Glycerylâ€Sâ€Acyl Carrier Protein as an Intermediate in the Biosynthesis of Tetronate Antibiotics. ChemBioChem, 2008, 9, 150-156.	2.6	66
76	Analysis of the Tetronomycin Gene Cluster: Insights into the Biosynthesis of a Polyether Tetronate Antibiotic. ChemBioChem, 2008, 9, 1136-1145.	2.6	72
77	Covalent Linkage Mediates Communication between ACP and TE Domains in Modular Polyketide Synthases. ChemBioChem, 2008, 9, 905-915.	2.6	26
78	A Polylinker Approach to Reductive Loop Swaps in Modular Polyketide Synthases. ChemBioChem, 2008, 9, 2740-2749.	2.6	53
79	Improved Catalytic Activity of a Purified Multienzyme from a Modular Polyketide Synthase after Coexpression with Streptomyces Chaperonins in Escherichia coli.. ChemBioChem, 2008, 9, 2962-2966.	2.6	32
80	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
81	The Role of Cep15 in the Biosynthesis of Chloroeremomycin: Reactivation of an Ancestral Catalytic Function. Chemistry and Biology, 2008, 15, 476-484.	6.0	14
82	Jonathan B. Spencer (1960â€“2008). Chemistry and Biology, 2008, 15, 424-426.	6.0	0
83	Prediction and Manipulation of the Stereochemistry of Enoylreduction in Modular Polyketide Synthases. Chemistry and Biology, 2008, 15, 1231-1240.	6.0	118
84	Deciphering the genetic basis for polyketide variation among mycobacteria producing mycolactones. BMC Genomics, 2008, 9, 462.	2.8	55
85	Actinomycete integrative and conjugative pMEA-like elements of Amycolatopsis and Saccharopolyspora decoded. Plasmid, 2008, 59, 202-216.	1.4	13
86	The neomycin biosynthetic gene cluster of Streptomyces fradiae NCIMB 8233: genetic and biochemical evidence for the roles of two glycosyltransferases and a deacetylase. Organic and Biomolecular Chemistry, 2008, 6, 3306.	2.8	17
87	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
88	Mycolactones: immunosuppressive and cytotoxic polyketides produced by aquatic mycobacteria. Natural Product Reports, 2008, 25, 447.	10.3	101
89	Engineered biosynthesis of hybrid macrolide polyketides containing d-angolosamine and d-mycaminose moieties. Organic and Biomolecular Chemistry, 2008, 6, 3315.	2.8	29
90	Mycolactone Diffuses from Mycobacterium ulceransâ€“Infected Tissues and Targets Mononuclear Cells in Peripheral Blood and Lymphoid Organs. PLoS Neglected Tropical Diseases, 2008, 2, e325.	3.0	80

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91	A Novel Mycolactone Toxin Obtained by Biosynthetic Engineering. ChemBioChem, 2007, 8, 2043-2047.	2.6	35
92	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
93	Complete genome sequence of the erythromycin-producing bacterium Saccharopolyspora erythraea NRRL23338. Nature Biotechnology, 2007, 25, 447-453.	17.5	348
94	Biosynthesis of the angiogenesis inhibitor borrelidin: directed biosynthesis of novel analogues. Chemical Communications, 2006, , 2341-2343.	4.1	38
95	Rapamycin biosynthesis: elucidation of gene product function. Organic and Biomolecular Chemistry, 2006, 4, 3565.	2.8	47
96	Engineering of the Spinosyn PKS:Â Directing Starter Unit Incorporation. Journal of Natural Products, 2006, 69, 1702-1710.	3.0	47
97	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
98	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
99	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
100	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
101	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
102	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
103	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
104	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
105	Combinatorial biosynthesis of reduced polyketides. Nature Reviews Microbiology, 2005, 3, 925-936.	28.6	417
106	Chain initiation on type I modular polyketide synthases revealed by limited proteolysis and ion-trap mass spectrometry. FEBS Journal, 2005, 272, 2373-2387.	4.7	27
107	Mutasynthesis of Rapamycin Analogues through the Manipulation of a Gene Governing Starter Unit Biosynthesis. Angewandte Chemie - International Edition, 2005, 44, 4757-4760.	13.8	93
108	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

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109	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
110	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
111	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
112	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
113	A New Modular Polyketide Synthase in the Erythromycin Producer Saccharopolyspora erythraea. Journal of Molecular Microbiology and Biotechnology, 2004, 8, 73-80.	1.0	13
114	Giant plasmid-encoded polyketide synthases produce the macrolide toxin of Mycobacterium ulcerans. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 1345-1349.	7.1	345
115	Biosynthesis of the angiogenesis inhibitor borrelidin by Streptomyces parvulus TÃ¼4055: insights into nitrile formationâ€. Molecular Microbiology, 2004, 52, 1745-1756.	2.5	67
116	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
117	New Rapamycin Derivatives by Precursor-Directed Biosynthesis. ChemBioChem, 2004, 5, 535-538.	2.6	45
118	Identification of a Phosphopantetheinyl Transferase for Erythromycin Biosynthesis in Saccharopolyspora erythraea. ChemBioChem, 2004, 5, 116-125.	2.6	64
119	Engineered Biosynthesis of Phenyl-Substituted Polyketides. ChemBioChem, 2004, 5, 1129-1131.	2.6	11
120	Biosynthesis of the Angiogenesis Inhibitor Borrelidin by Streptomyces parvulus TÃ¼4055. Chemistry and Biology, 2004, 11, 87-97.	6.0	82
121	Biosynthetic Gene Cluster of the Glycopeptide Antibiotic Teicoplanin. Chemistry and Biology, 2004, 11, 107-119.	6.0	59
122	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
123	Biosynthesis of the Angiogenesis Inhibitor Borrelidin by Streptomyces parvulus TÃ¼4055Cluster Analysis and Assignment of Functions. Chemistry and Biology, 2004, 11, 87-97.	6.0	44
124	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
125	Active-site residue, domain and module swaps in modular polyketide synthases. Journal of Industrial Microbiology and Biotechnology, 2003, 30, 489-494.	3.0	112
126	Catalytically Active Tetramodular 6-Deoxyerythonolide B Synthase Fusion Proteins. ChemBioChem, 2003, 4, 1225-1228.	2.6	9

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127	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
128	Mammalian Fatty Acid Synthase. Chemistry and Biology, 2003, 10, 101-103.	6.0	4
129	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
130	The Structure of Docking Domains in Modular Polyketide Synthases. Chemistry and Biology, 2003, 10, 723-731.	6.0	185
131	Identification using LC-MSn of co-metabolites in the biosynthesis of the polyketide toxin mycolactone 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/. Chemical Communications, 2003, , 2822.	4.1	47
132	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
133	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 the13C NMR and 1H COSY spectra of 3. See http://www.rsc.org/suppdata/ob/b3/b310740j/. Organic and Biomolecular Chemistry, 2003, 1, 4144.	2.8	36
134	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
135	Biosynthetic engineering of polyketide synthases. Expert Opinion on Therapeutic Patents, 2003, 13, 1579-1606.	5.0	12
136	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
137	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
138	Engineered biosynthesis of novel spinosyns bearing altered deoxyhexose substituentsElectronic supplementary information (ESI) available: 1H and 13C NMR data for compounds 5â€“8. See http://www.rsc.org/suppdata/cc/b2/b200536k/. Chemical Communications, 2002, , 618-619.	4.1	31
139	Skipping in a Hybrid Polyketide Synthase. Chemistry and Biology, 2002, 9, 781-787.	6.0	60
140	Engineering specificity of starter unit selection by the erythromycinâ€producing polyketide synthase. Molecular Microbiology, 2002, 43, 1215-1225.	2.5	83
141	Parallel pathways for oxidation of 14-membered polyketide macrolactones in Saccharopolyspora erythraea. Molecular Microbiology, 2002, 44, 771-781.	2.5	31
142	Increasing the efficiency of heterologous promoters in actinomycetes. Journal of Molecular Microbiology and Biotechnology, 2002, 4, 417-26.	1.0	119
143	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
144	Molecular basis of Celmerâ€™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

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145	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
146	Chain initiation on the soraphen-producing modular polyketide synthase from Sorangium cellulosum. Chemistry and Biology, 2001, 8, 1197-1208.	6.0	46
147	Origin and True Nature of the Starter Unit for the Rapamycin Polyketide Synthase. Angewandte Chemie - International Edition, 2001, 40, 777-779.	13.8	39
148	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
149	Cloning and partial characterization of the putative rifamycin biosynthetic gene cluster from the actinomycete Amycolatopsis mediterranei DSM 46095. Microbiological Research, 2001, 156, 239-246.	5.3	15
150	Origin and True Nature of the Starter Unit for the Rapamycin Polyketide Synthase We thank Dr. Bradley S. Moore for help with the deuterium NMR experiments. This work was supported by grants from The Wellcome Trust (to J.S. and P.F.L.) and from the NIH (AI20264 to H.G.F.).. Angewandte Chemie - International Edition, 2001, 40, 777-779.	13.8	8
151	A defined system for hybrid macrolide biosynthesis in Saccharopolyspora erythraea. Molecular Microbiology, 2000, 36, 391-401.	2.5	81
152	Efficient purification and kinetic characterization of a bimodular derivative of the erythromycin polyketide synthase. FEBS Journal, 2000, 267, 520-526.	0.2	17
153	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
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