

Patrick Caffrey

List of Publications by Year in descending order

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38
papers

3,132
citations

279701

23
h-index

315616

38
g-index

39
all docs

39
docs citations

39
times ranked

2983
citing authors

#	ARTICLE	IF	CITATIONS
1	Minimum Information about a Biosynthetic Gene cluster. <i>Nature Chemical Biology</i> , 2015, 11, 625-631.	3.9	715
2	The biosynthetic gene cluster for the polyketide immunosuppressant rapamycin.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1995, 92, 7839-7843.	3.3	442
3	Conserved Amino Acid Residues Correlating With Ketoreductase Stereospecificity in Modular Polyketide Synthases. <i>ChemBioChem</i> , 2003, 4, 654-657.	1.3	323
4	Amphotericin biosynthesis in <i>Streptomyces nodosus</i> : deductions from analysis of polyketide synthase and late genes. <i>Chemistry and Biology</i> , 2001, 8, 713-723.	6.2	211
5	Stereospecific acyl transfers on the erythromycin-producing polyketide synthase. <i>Science</i> , 1994, 263, 378-380.	6.0	177
6	Identification of DEBS 1, DEBS 2 and DEBS 3, the multienzyme polypeptides of the erythromycin-producing polyketide synthase from <i>Saccharopolyspora erythraea</i> . <i>FEBS Letters</i> , 1992, 304, 225-228.	1.3	135
7	Polyene antibiotic biosynthesis gene clusters. <i>Applied Microbiology and Biotechnology</i> , 2003, 61, 179-188.	1.7	132
8	Evidence for a double-helical structure for modular polyketide synthases. <i>Nature Structural Biology</i> , 1996, 3, 188-192.	9.7	112
9	Biosynthesis of Amphotericin Derivatives Lacking Exocyclic Carboxyl Groups*. <i>Journal of Biological Chemistry</i> , 2005, 280, 34420-34426.	1.6	95
10	Biosynthetic Engineering of Polyene Macrolides Towards Generation of Improved Antifungal and Antiparasitic Agents. <i>Current Topics in Medicinal Chemistry</i> , 2008, 8, 639-653.	1.0	65
11	Limited proteolysis and active-site studies of the first multienzyme component of the erythromycin-producing polyketide synthase. <i>Journal of Biological Chemistry</i> , 1994, 269, 8524-8.	1.6	65
12	Biosynthesis of Deoxyamphotericins and Deoxyamphoterolides by Engineered Strains of <i>Streptomyces nodosus</i> . <i>Chemistry and Biology</i> , 2003, 10, 1215-1224.	6.2	62
13	An acyl-carrier-protein - thioesterase domain from the 6-deoxyerythronolide B synthase of <i>Saccharopolyspora erythraea</i> . High-level production, purification and characterisation in <i>Escherichia coli</i> . <i>FEBS Journal</i> , 1991, 195, 823-830.	0.2	61
14	Analysis and manipulation of amphotericin biosynthetic genes by means of modified phage KC515 transduction techniques. <i>Gene</i> , 2004, 343, 107-115.	1.0	59
15	Purification and N-terminal sequence of the alpha subunit of antigen 43, a unique protein complex associated with the outer membrane of <i>Escherichia coli</i> . <i>Journal of Bacteriology</i> , 1989, 171, 3634-3640.	1.0	51
16	Engineered Synthesis of 7-Oxo- and 15-Deoxy-15-Oxo-Amphotericins: Insights into Structure-Activity Relationships in Polyene Antibiotics. <i>Chemistry and Biology</i> , 2008, 15, 78-86.	6.2	44
17	Identification and partial characterization of a novel bipartite protein antigen associated with the outer membrane of <i>Escherichia coli</i> . <i>Journal of Bacteriology</i> , 1987, 169, 3770-3777.	1.0	43
18	Redesign of Polyene Macrolide Glycosylation: Engineered Biosynthesis of 19-(O)-Perosaminyl-Amphoterolide B. <i>Chemistry and Biology</i> , 2010, 17, 174-182.	6.2	34

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19	Polyene macrolide biosynthesis in streptomycetes and related bacteria: recent advances from genome sequencing and experimental studies. <i>Applied Microbiology and Biotechnology</i> , 2016, 100, 3893-3908.	1.7	33
20	Phosphomannose isomerase and phosphomannomutase gene disruptions in <i>Streptomyces nodosus</i> : Impact on amphotericin biosynthesis and implications for glycosylation engineering. <i>Metabolic Engineering</i> , 2009, 11, 40-47.	3.6	31
21	The erythromycin-producing polyketide synthase. <i>Biochemical Society Transactions</i> , 1993, 21, 218-222.	1.6	28
22	The Stereochemistry of Ketoreduction. <i>Chemistry and Biology</i> , 2005, 12, 1060-1062.	6.2	28
23	Isolation and characterisation of amphotericin B analogues and truncated polyketide intermediates produced by genetic engineering of <i>Streptomyces nodosus</i> . <i>Organic and Biomolecular Chemistry</i> , 2010, 8, 3758.	1.5	28
24	Exploiting the genome sequence of <i>Streptomyces nodosus</i> for enhanced antibiotic production. <i>Applied Microbiology and Biotechnology</i> , 2016, 100, 1285-1295.	1.7	20
25	Effects of new amphotericin analogues on the scrapie isoform of the prion protein. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2008, 1780, 1162-1167.	1.1	16
26	Engineered Biosynthesis of Disaccharide-Modified Polyene Macrolides. <i>Applied and Environmental Microbiology</i> , 2013, 79, 6156-6159.	1.4	15
27	<i>Streptomyces nodosus</i> Host Strains Optimized for Polyene Glycosylation Engineering. <i>Bioscience, Biotechnology and Biochemistry</i> , 2012, 76, 384-387.	0.6	14
28	Versatility of Enzymes Catalyzing Late Steps in Polyene 67-121C Biosynthesis. <i>Bioscience, Biotechnology and Biochemistry</i> , 2013, 77, 880-883.	0.6	14
29	Identification, immunochemical characterization, and purification of a major lipoprotein antigen associated with the inner (cytoplasmic) membrane of <i>Escherichia coli</i> . <i>Journal of Bacteriology</i> , 1986, 166, 1072-1082.	1.0	13
30	A labile point in mutant amphotericin polyketide synthases. <i>Biotechnology Letters</i> , 2011, 33, 1121-1126.	1.1	12
31	Chapter 11 Genetic Analysis of Nystatin and Amphotericin Biosynthesis. <i>Methods in Enzymology</i> , 2009, 459, 243-258.	0.4	10
32	Role of polyol moiety of amphotericin B in ion channel formation and sterol selectivity in bilayer membrane. <i>Bioorganic and Medicinal Chemistry</i> , 2015, 23, 5782-5788.	1.4	10
33	New insights into polyene macrolide biosynthesis in <i>Cochliophanes caeruleus</i> . <i>Molecular BioSystems</i> , 2017, 13, 866-873.	2.9	9
34	Engineered biosynthesis and characterisation of disaccharide-modified 8-deoxyamphoteronolides. <i>Applied Microbiology and Biotechnology</i> , 2017, 101, 1899-1905.	1.7	8
35	New Glycosylated Polyene Macrolides: Refining the Ore from Genome Mining. <i>Antibiotics</i> , 2022, 11, 334.	1.5	8
36	DISSECTING COMPLEX POLYKETIDE BIOSYNTHESIS. <i>Computational and Structural Biotechnology Journal</i> , 2012, 3, e201210010.	1.9	7

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37	New Start and Finish for Complex Polyketide Biosynthesis. <i>Chemistry and Biology</i> , 2004, 11, 155-157.	6.2	1
38	Structural analysis of P450 AmphL from <i>Streptomyces nodosus</i> provides insights into substrate selectivity of polyene macrolide antibiotic biosynthetic P450s. <i>Journal of Biological Chemistry</i> , 2022, 298, 101746.	1.6	1