

Chaitan Khosla

List of Publications by Year in descending order

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353
papers

26,964
citations

4942

84
h-index

9839

141
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369
all docs

369
docs citations

369
times ranked

14818
citing authors

#	ARTICLE	IF	CITATIONS
1	Structural Basis for Gluten Intolerance in Celiac Sprue. <i>Science</i> , 2002, 297, 2275-2279.	6.0	1,383
2	A new enzyme superfamily – the phosphopantetheinyl transferases. <i>Chemistry and Biology</i> , 1996, 3, 923-936.	6.2	746
3	Biosynthesis of Complex Polyketides in a Metabolically Engineered Strain of <i>E. coli</i> . <i>Science</i> , 2001, 291, 1790-1792.	6.0	687
4	Harnessing the Biosynthetic Code: Combinations, Permutations, and Mutations. , 1998, 282, 63-68.		539
5	Cloning and Heterologous Expression of the Epothilone Gene Cluster. <i>Science</i> , 2000, 287, 640-642.	6.0	429
6	Structural basis for HLA-DQ2-mediated presentation of gluten epitopes in celiac disease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 4175-4179.	3.3	386
7	Transglutaminase 2 Undergoes a Large Conformational Change upon Activation. <i>PLoS Biology</i> , 2007, 5, e327.	2.6	369
8	Reovirus infection triggers inflammatory responses to dietary antigens and development of celiac disease. <i>Science</i> , 2017, 356, 44-50.	6.0	367
9	Tolerance and Specificity of Polyketide Synthases. <i>Annual Review of Biochemistry</i> , 1999, 68, 219-253.	5.0	348
10	Overproduction of free fatty acids in <i>E. coli</i> : Implications for biodiesel production. <i>Metabolic Engineering</i> , 2008, 10, 333-339.	3.6	341
11	Dissecting and Exploiting Intermodular Communication in Polyketide Synthases. <i>Science</i> , 1999, 284, 482-485.	6.0	330
12	Nonproteinogenic Amino Acid Building Blocks for Nonribosomal Peptide and Hybrid Polyketide Scaffolds. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 7098-7124.	7.2	314
13	Intestinal digestive resistance of immunodominant gliadin peptides. <i>American Journal of Physiology - Renal Physiology</i> , 2002, 283, G996-G1003.	1.6	296
14	Rational design of aromatic polyketide natural products by recombinant assembly of enzymatic subunits. <i>Nature</i> , 1995, 375, 549-554.	13.7	286
15	Structure and Mechanism of the 6-Deoxyerythronolide B Synthase. <i>Annual Review of Biochemistry</i> , 2007, 76, 195-221.	5.0	282
16	Precursor-Directed Biosynthesis of Erythromycin Analogs by an Engineered Polyketide Synthase. <i>Science</i> , 1997, 277, 367-369.	6.0	271
17	The 2.7-Å crystal structure of a 194-kDa homodimeric fragment of the 6-deoxyerythronolide B synthase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 11124-11129.	3.3	259
18	Identification and Analysis of Multivalent Proteolytically Resistant Peptides from Gluten: Implications for Celiac Sprue. <i>Journal of Proteome Research</i> , 2005, 4, 1732-1741.	1.8	239

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19	Heterologous expression of a bacterial haemoglobin improves the growth properties of recombinant <i>Escherichia coli</i> . <i>Nature</i> , 1988, 331, 633-635.	13.7	233
20	Biosynthesis of Polyketides in Heterologous Hosts. <i>Microbiology and Molecular Biology Reviews</i> , 2001, 65, 106-118.	2.9	225
21	Combination Enzyme Therapy for Gastric Digestion of Dietary Gluten in Patients With Celiac Sprue. <i>Gastroenterology</i> , 2007, 133, 472-480.	0.6	205
22	Comparative biochemical analysis of three bacterial prolyl endopeptidases: implications for coeliac sprue. <i>Biochemical Journal</i> , 2004, 383, 311-318.	1.7	204
23	Harnessing the Biosynthetic Potential of Modular Polyketide Synthases. <i>Chemical Reviews</i> , 1997, 97, 2577-2590.	23.0	202
24	Quantitative analysis and engineering of fatty acid biosynthesis in <i>E. coli</i> . <i>Metabolic Engineering</i> , 2010, 12, 378-386.	3.6	198
25	Metabolic engineering for drug discovery and development. <i>Nature Reviews Drug Discovery</i> , 2003, 2, 1019-1025.	21.5	187
26	Role of linkers in communication between protein modules. <i>Current Opinion in Chemical Biology</i> , 2000, 4, 22-27.	2.8	179
27	Dietary gluten triggers concomitant activation of CD4 ⁺ and CD8 ⁺ T cells and \hat{I}^2 T cells in celiac disease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 13073-13078.	3.3	178
28	Evolution and Diversity of Assembly-Line Polyketide Synthases. <i>Chemical Reviews</i> , 2019, 119, 12524-12547.	23.0	178
29	Extracellular Transglutaminase 2 Is Catalytically Inactive, but Is Transiently Activated upon Tissue Injury. <i>PLoS ONE</i> , 2008, 3, e1861.	1.1	174
30	Isolation and characterization of the epothilone biosynthetic gene cluster from <i>Sorangium cellulosum</i> . <i>Gene</i> , 2000, 249, 153-160.	1.0	172
31	Transglutaminase 2 inhibitors and their therapeutic role in disease states. , 2007, 115, 232-245.		170
32	Biosynthesis of Aromatic Polyketides in Bacteria. <i>Accounts of Chemical Research</i> , 2009, 42, 631-639.	7.6	170
33	HEx: A heterologous expression platform for the discovery of fungal natural products. <i>Science Advances</i> , 2018, 4, eaar5459.	4.7	167
34	Expanding the Fluorine Chemistry of Living Systems Using Engineered Polyketide Synthase Pathways. <i>Science</i> , 2013, 341, 1089-1094.	6.0	166
35	Evolution of polyketide synthases in bacteria. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 4595-4600.	3.3	163
36	An antibiotic factory caught in action. <i>Nature Structural and Molecular Biology</i> , 2004, 11, 888-893.	3.6	162

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37	Parallel shRNA and CRISPR-Cas9 screens enable antiviral drug target identification. <i>Nature Chemical Biology</i> , 2016, 12, 361-366.	3.9	157
38	Transglutaminase 2 inhibitor, KCC009, disrupts fibronectin assembly in the extracellular matrix and sensitizes orthotopic glioblastomas to chemotherapy. <i>Oncogene</i> , 2007, 26, 2563-2573.	2.6	156
39	Redox Regulation of Transglutaminase 2 Activity. <i>Journal of Biological Chemistry</i> , 2010, 285, 25402-25409.	1.6	155
40	Chemistry and Biology of Dihydroisoxazole Derivatives: Selective Inhibitors of Human Transglutaminase 2. <i>Chemistry and Biology</i> , 2005, 12, 469-475.	6.2	154
41	In vitro reconstitution and steady-state analysis of the fatty acid synthase from <i>Escherichia coli</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 18643-18648.	3.3	152
42	Structural and Mechanistic Analysis of Protein Interactions in Module 3 of the 6-Deoxyerythronolide B Synthase. <i>Chemistry and Biology</i> , 2007, 14, 931-943.	6.2	151
43	Toward the Assessment of Food Toxicity for Celiac Patients: Characterization of Monoclonal Antibodies to a Main Immunogenic Gluten Peptide. <i>PLoS ONE</i> , 2008, 3, e2294.	1.1	141
44	Mechanism and specificity of the terminal thioesterase domain from the erythromycin polyketide synthase. <i>Chemistry and Biology</i> , 1999, 6, 117-125.	6.2	140
45	Antigen Presentation to Celiac Lesion-Derived T Cells of a 33-Mer Gliadin Peptide Naturally Formed by Gastrointestinal Digestion. <i>Journal of Immunology</i> , 2004, 173, 1757-1762.	0.4	140
46	Apoptolidin, a selective cytotoxic agent, is an inhibitor of FOF1-ATPase. <i>Chemistry and Biology</i> , 2001, 8, 71-80.	6.2	138
47	Modular enzymes. <i>Nature</i> , 2001, 409, 247-252.	13.7	137
48	Future therapeutic options for celiac disease. <i>Nature Reviews Gastroenterology & Hepatology</i> , 2005, 2, 140-147.	1.7	137
49	Structural and mechanistic analysis of two prolyl endopeptidases: Role of interdomain dynamics in catalysis and specificity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 3599-3604.	3.3	133
50	Combinatorial biosynthesis of polyketides—a perspective. <i>Current Opinion in Chemical Biology</i> , 2012, 16, 117-123.	2.8	126
51	Engineered Biosynthesis of Novel Polyketides: Dissection of the Catalytic Specificity of the act Ketoreductase. <i>Journal of the American Chemical Society</i> , 1994, 116, 4166-4170.	6.6	125
52	High Selectivity of Human Tissue Transglutaminase for Immunoactive Gliadin Peptides: Implications for Celiac Sprue. <i>Biochemistry</i> , 2002, 41, 386-393.	1.2	125
53	Catalysis, Specificity, and ACP Docking Site of <i>Streptomyces coelicolor</i> Malonyl-CoA:ACP Transacylase. <i>Structure</i> , 2003, 11, 147-154.	1.6	125
54	Assessing the Balance between Protein-Protein Interactions and Enzyme-Substrate Interactions in the Channeling of Intermediates between Polyketide Synthase Modules. <i>Journal of the American Chemical Society</i> , 2001, 123, 6465-6474.	6.6	124

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55	Prolyl Endopeptidase-Mediated Destruction of T Cell Epitopes in Whole Gluten: Chemical and Immunological Characterization. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2005, 312, 19-26.	1.3	123
56	Selective Protein-Protein Interactions Direct Channeling of Intermediates between Polyketide Synthase Modules. <i>Biochemistry</i> , 2001, 40, 2326-2331.	1.2	122
57	IL-15, gluten and HLA-DQ8 drive tissue destruction in coeliac disease. <i>Nature</i> , 2020, 578, 600-604.	13.7	122
58	Prolyl endopeptidases. <i>Cellular and Molecular Life Sciences</i> , 2007, 64, 345-355.	2.4	121
59	Quantitative Analysis of the Relative Contributions of Donor Acyl Carrier Proteins, Acceptor Ketosynthases, and Linker Regions to Intermodular Transfer of Intermediates in Hybrid Polyketide Synthases. <i>Biochemistry</i> , 2002, 41, 5056-5066.	1.2	120
60	The Vitreoscilla hemoglobin gene: Molecular cloning, nucleotide sequence and genetic expression in <i>Escherichia coli</i> . <i>Molecular Genetics and Genomics</i> , 1988, 214, 158-161.	2.4	119
61	Genetic Engineering of <i>Escherichia coli</i> for Biofuel Production. <i>Annual Review of Genetics</i> , 2010, 44, 53-69.	3.2	119
62	Rational Design of Combination Enzyme Therapy for Celiac Sprue. <i>Chemistry and Biology</i> , 2006, 13, 649-658.	6.2	117
63	Assembly Line Polyketide Synthases: Mechanistic Insights and Unsolved Problems. <i>Biochemistry</i> , 2014, 53, 2875-2883.	1.2	114
64	Insights into Channel Architecture and Substrate Specificity from Crystal Structures of Two Macrocyclic-Forming Thioesterases of Modular Polyketide Synthases. <i>Biochemistry</i> , 2002, 41, 12598-12606.	1.2	113
65	KIR CD8 T cells suppress pathogenic T cells and are active in autoimmune diseases and COVID-19. <i>Science</i> , 2022, 376, eabi9591.	6.0	113
66	Biosynthesis of Yersiniabactin, a Complex Polyketide-Nonribosomal Peptide, Using <i>Escherichia coli</i> as a Heterologous Host. <i>Applied and Environmental Microbiology</i> , 2003, 69, 6698-6702.	1.4	111
67	Generation of polyketide libraries via combinatorial biosynthesis. <i>Trends in Biotechnology</i> , 1996, 14, 335-341.	4.9	110
68	Solution structure and proposed domain-domain recognition interface of an acyl carrier protein domain from a modular polyketide synthase. <i>Protein Science</i> , 2007, 16, 2093-2107.	3.1	107
69	Peginterferon Lambda-1a for treatment of outpatients with uncomplicated COVID-19: a randomized placebo-controlled trial. <i>Nature Communications</i> , 2021, 12, 1967.	5.8	107
70	Heterologous Expression, Purification, Refolding, and Structural-Functional Characterization of EP-B2, a Self-Activating Barley Cysteine Endoprotease. <i>Chemistry and Biology</i> , 2006, 13, 637-647.	6.2	104
71	Structure and mechanism of assembly line polyketide synthases. <i>Current Opinion in Structural Biology</i> , 2016, 41, 10-18.	2.6	104
72	Polyketide Chain Length Control by Chain Length Factor. <i>Journal of the American Chemical Society</i> , 2003, 125, 12708-12709.	6.6	102

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73	Effect of Prolyl Endopeptidase on Digestive-Resistant Gliadin Peptides in Vivo. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2004, 311, 213-219.	1.3	101
74	Novel therapies for coeliac disease. <i>Journal of Internal Medicine</i> , 2011, 269, 604-613.	2.7	101
75	Genetic Mapping and Biochemical Basis of Yellow Feather Pigmentation in Budgerigars. <i>Cell</i> , 2017, 171, 427-439.e21.	13.5	101
76	Evidence for Two Catalytically Independent Clusters of Active Sites in a Functional Modular Polyketide Synthase. <i>Biochemistry</i> , 1996, 35, 12363-12368.	1.2	100
77	Engineering the acyltransferase substrate specificity of assembly line polyketide synthases. <i>Journal of the Royal Society Interface</i> , 2013, 10, 20130297.	1.5	99
78	Reprogramming a module of the 6-deoxyerythronolide B synthase for iterative chain elongation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 4110-4115.	3.3	97
79	Engineered biosynthesis of a triketide lactone from an incomplete modular polyketide synthase. <i>Journal of the American Chemical Society</i> , 1994, 116, 11612-11613.	6.6	96
80	Engineered biosynthesis of novel polyketides: manipulation and analysis of an aromatic polyketide synthase with unproven catalytic specificities. <i>Journal of the American Chemical Society</i> , 1993, 115, 11671-11675.	6.6	95
81	Engineered Biosynthesis of Novel Polyketides: actVII and actIV Genes Encode Aromatase and Cyclase Enzymes, Respectively. <i>Journal of the American Chemical Society</i> , 1994, 116, 10855-10859.	6.6	95
82	Activation of Extracellular Transglutaminase 2 by Thioredoxin. <i>Journal of Biological Chemistry</i> , 2011, 286, 37866-37873.	1.6	95
83	Extender Unit and Acyl Carrier Protein Specificity of Ketosynthase Domains of the 6-Deoxyerythronolide B Synthase. <i>Journal of the American Chemical Society</i> , 2006, 128, 3067-3074.	6.6	94
84	Solution Structure and Backbone Dynamics of the Holo Form of the Frenolicin Acyl Carrier Protein. <i>Biochemistry</i> , 2003, 42, 4648-4657.	1.2	93
85	Effect of Pretreatment of Food Gluten With Prolyl Endopeptidase on Gluten-Induced Malabsorption in Celiac Sprue. <i>Clinical Gastroenterology and Hepatology</i> , 2005, 3, 687-694.	2.4	93
86	Engineered Biosynthesis of Novel Polyketides from <i>Streptomyces</i> Spore Pigment Polyketide Synthases. <i>Journal of the American Chemical Society</i> , 1998, 120, 7749-7759.	6.6	92
87	Novel aspects of quantitation of immunogenic wheat gluten peptides by liquid chromatography-mass spectrometry/mass spectrometry. <i>Journal of Chromatography A</i> , 2010, 1217, 4167-4183.	1.8	91
88	Structures and Mechanisms of Polyketide Synthases. <i>Journal of Organic Chemistry</i> , 2009, 74, 6416-6420.	1.7	88
89	Combinatorial biosynthesis of "unnatural" natural products: the polyketide example. <i>Chemistry and Biology</i> , 1995, 2, 355-362.	6.2	87
90	Process and Metabolic Strategies for Improved Production of <i>Escherichia coli</i> -Derived 6-Deoxyerythronolide B. <i>Applied and Environmental Microbiology</i> , 2002, 68, 3287-3292.	1.4	87

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91	Engineered Biosynthesis of Structurally Diverse Tetraketides by a Trimodular Polyketide Synthase. <i>Journal of the American Chemical Society</i> , 1996, 118, 9184-9185.	6.6	86
92	Purification and in Vitro Reconstitution of the Essential Protein Components of an Aromatic Polyketide Synthase. <i>Biochemistry</i> , 1998, 37, 2084-2088.	1.2	86
93	Cloning, Nucleotide Sequence, and Heterologous Expression of the Biosynthetic Gene Cluster for R1128, a Non-steroidal Estrogen Receptor Antagonist. <i>Journal of Biological Chemistry</i> , 2000, 275, 33443-33448.	1.6	86
94	Cyclic and dimeric gluten peptide analogues inhibiting DQ2-mediated antigen presentation in celiac disease. <i>Bioorganic and Medicinal Chemistry</i> , 2007, 15, 6565-6573.	1.4	85
95	A Food-Grade Enzyme Preparation with Modest Gluten Detoxification Properties. <i>PLoS ONE</i> , 2009, 4, e6313.	1.1	84
96	Engineered biosynthesis of an ansamycin polyketide precursor in <i>Escherichia coli</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 9774-9778.	3.3	83
97	Revisiting the modularity of modular polyketide synthases. <i>Current Opinion in Chemical Biology</i> , 2009, 13, 135-143.	2.8	83
98	Expression of Intracellular Hemoglobin Improves Protein Synthesis in Oxygen-Limited <i>Escherichia coli</i> . <i>Nature Biotechnology</i> , 1990, 8, 849-853.	9.4	82
99	Metabolic Engineering of a Methylmalonyl-CoA Mutase~Epimerase Pathway for Complex Polyketide Biosynthesis in <i>Escherichia coli</i> . <i>Biochemistry</i> , 2002, 41, 5193-5201.	1.2	82
100	Tissue transglutaminase 2 inhibition promotes cell death and chemosensitivity in glioblastomas. <i>Molecular Cancer Therapeutics</i> , 2005, 4, 1293-1302.	1.9	82
101	Alcohol Stereochemistry in Polyketide Backbones Is Controlled by the β^2 -Ketoreductase Domains of Modular Polyketide Synthases. <i>Journal of the American Chemical Society</i> , 1998, 120, 2478-2479.	6.6	81
102	Dissecting the Role of Acyltransferase Domains of Modular Polyketide Synthases in the Choice and Stereochemical Fate of Extender Units. <i>Biochemistry</i> , 1999, 38, 1643-1651.	1.2	81
103	Stereospecificity of Ketoreductase Domains of the 6-Deoxyerythronolide B Synthase. <i>Journal of the American Chemical Society</i> , 2007, 129, 13758-13769.	6.6	81
104	Molecular recognition between ketosynthase and acyl carrier protein domains of the 6-deoxyerythronolide B synthase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 22066-22071.	3.3	81
105	Epothilone C Macrolactonization and Hydrolysis Are Catalyzed by the Isolated Thioesterase Domain of Epothilone Polyketide Synthase. <i>Journal of the American Chemical Society</i> , 2003, 125, 3428-3429.	6.6	80
106	Protein engineering of improved prolyl endopeptidases for celiac sprue therapy. <i>Protein Engineering, Design and Selection</i> , 2008, 21, 699-707.	1.0	80
107	Targeted gene replacements in a <i>Streptomyces</i> polyketide synthase gene cluster: role for the acyl carrier protein. <i>Molecular Microbiology</i> , 1992, 6, 3237-3249.	1.2	79
108	Gain of Function Mutagenesis of the Erythromycin Polyketide Synthase. 2. Engineered Biosynthesis of an Eight-Membered Ring Tetraketide Lactone. <i>Journal of the American Chemical Society</i> , 1997, 119, 11339-11340.	6.6	79

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109	The Biochemical Basis for Stereochemical Control in Polyketide Biosynthesis. <i>Journal of the American Chemical Society</i> , 2009, 131, 18501-18511.	6.6	79
110	Engineered intermodular and intramodular polyketide synthase fusions. <i>Chemistry and Biology</i> , 1997, 4, 667-674.	6.2	78
111	Structure-Activity Relationship Analysis of the Selective Inhibition of Transglutaminase 2 by Dihydroisoxazoles. <i>Journal of Medicinal Chemistry</i> , 2006, 49, 7493-7501.	2.9	78
112	Structure and Mechanism of the <i>trans</i> -Acting Acyltransferase from the Disorazole Synthase. <i>Biochemistry</i> , 2011, 50, 6539-6548.	1.2	78
113	Gain-of-Function Mutagenesis of a Modular Polyketide Synthase. <i>Journal of the American Chemical Society</i> , 1997, 119, 4309-4310.	6.6	77
114	A Non-Human Primate Model for Gluten Sensitivity. <i>PLoS ONE</i> , 2008, 3, e1614.	1.1	76
115	Crystal Structure of the Priming β^2 -Ketosynthase from the R1128 Polyketide Biosynthetic Pathway. <i>Structure</i> , 2002, 10, 1559-1568.	1.6	75
116	Design, Synthesis, and Evaluation of Gluten Peptide Analogs as Selective Inhibitors of Human Tissue Transglutaminase. <i>Chemistry and Biology</i> , 2003, 10, 225-231.	6.2	75
117	Kinetic and Structural Analysis of a New Group of Acyl-CoA Carboxylases Found in <i>Streptomyces coelicolor</i> A3(2). <i>Journal of Biological Chemistry</i> , 2002, 277, 31228-31236.	1.6	74
118	Inhibition of HLA-DQ2-Mediated Antigen Presentation by Analogues of a High Affinity 33-Residue Peptide from α -Gliadin. <i>Journal of the American Chemical Society</i> , 2006, 128, 1859-1867.	6.6	73
119	Engineered biosynthesis of novel polyketides: evidence for temporal, but not regiospecific, control of cyclization of an aromatic polyketide precursor. <i>Chemistry and Biology</i> , 1994, 1, 205-210.	6.2	72
120	Structure-Based Dissociation of a Type I Polyketide Synthase Module. <i>Chemistry and Biology</i> , 2007, 14, 784-792.	6.2	72
121	Molecular Insights into the Biosynthesis of Guadinomine: A Type III Secretion System Inhibitor. <i>Journal of the American Chemical Society</i> , 2012, 134, 17797-17806.	6.6	72
122	Oral Enzyme Therapy for Celiac Sprue. <i>Methods in Enzymology</i> , 2012, 502, 241-271.	0.4	72
123	Analysis of the Molecular Recognition Features of Individual Modules Derived from the Erythromycin Polyketide Synthase. <i>Journal of the American Chemical Society</i> , 2000, 122, 4847-4852.	6.6	71
124	Engineered Biosynthesis of Regioselectively Modified Aromatic Polyketides Using Bimodular Polyketide Synthases. <i>PLoS Biology</i> , 2004, 2, e31.	2.6	71
125	Polyketide Double Bond Biosynthesis. Mechanistic Analysis of the Dehydratase-Containing Module 2 of the Picromycin/Methymycin Polyketide Synthase. <i>Journal of the American Chemical Society</i> , 2005, 127, 17393-17404.	6.6	71
126	Role of transglutaminase 2 in celiac disease pathogenesis. <i>Seminars in Immunopathology</i> , 2012, 34, 513-522.	2.8	71

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127	Early non-neutralizing, afucosylated antibody responses are associated with COVID-19 severity. <i>Science Translational Medicine</i> , 2022, 14, eabm7853.	5.8	71
128	Fermentation, purification, formulation, and pharmacological evaluation of a prolyl endopeptidase from <i>Myxococcus xanthus</i> : Implications for Celiac Sprue therapy. <i>Biotechnology and Bioengineering</i> , 2005, 92, 674-684.	1.7	70
129	In Vitro Reconstitution and Analysis of the 6-Deoxyerythronolide B Synthase. <i>Journal of the American Chemical Society</i> , 2013, 135, 16809-16812.	6.6	70
130	Mechanistic Analysis of Acyl Transferase Domain Exchange in Polyketide Synthase Modules. <i>Journal of the American Chemical Society</i> , 2003, 125, 5366-5374.	6.6	67
131	Mechanistic Analysis of a Type II Polyketide Synthase. Role of Conserved Residues in the β^2 -Ketoacyl Synthase α Chain Length Factor Heterodimer. <i>Biochemistry</i> , 2000, 39, 2088-2095.	1.2	66
132	Transglutaminase 2 Regulates Mallory Body Inclusion Formation and Injury-Associated Liver Enlargement. <i>Gastroenterology</i> , 2007, 132, 1515-1526.	0.6	66
133	Dissecting the Chain Length Specificity in Bacterial Aromatic Polyketide Synthases using Chimeric Genes. <i>Tetrahedron</i> , 2000, 56, 9401-9408.	1.0	65
134	Understanding Substrate Specificity of Polyketide Synthase Modules by Generating Hybrid Multimodular Synthases. <i>Journal of Biological Chemistry</i> , 2003, 278, 42020-42026.	1.6	65
135	Effect of Barley Endoprotease EP-B2 on Gluten Digestion in the Intact Rat. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2006, 318, 1178-1186.	1.3	65
136	Evidence for partial export of <i>Vitreoscilla</i> hemoglobin into the periplasmic space in <i>Escherichia coli</i> . <i>Journal of Molecular Biology</i> , 1989, 210, 79-89.	2.0	64
137	A functional chimeric modular polyketide synthase generated via domain replacement. <i>Chemistry and Biology</i> , 1996, 3, 827-831.	6.2	64
138	Natural Product Biosynthesis: A New Interface between Enzymology and Medicine. <i>Journal of Organic Chemistry</i> , 2000, 65, 8127-8133.	1.7	64
139	Stereospecificity of the Dehydratase Domain of the Erythromycin Polyketide Synthase. <i>Journal of the American Chemical Society</i> , 2010, 132, 14697-14699.	6.6	64
140	Human pyrimidine nucleotide biosynthesis as a target for antiviral chemotherapy. <i>Current Opinion in Biotechnology</i> , 2017, 48, 127-134.	3.3	64
141	Reconstituting Modular Activity from Separated Domains of 6-Deoxyerythronolide B Synthase α . <i>Biochemistry</i> , 2004, 43, 13892-13898.	1.2	63
142	The Loading Module of Rifamycin Synthetase Is an Adenylation α Thiolation Didomain with Substrate Tolerance for Substituted Benzoates. <i>Biochemistry</i> , 2001, 40, 6116-6123.	1.2	62
143	Ketosynthases in the Initiation and Elongation Modules of Aromatic Polyketide Synthases Have Orthogonal Acyl Carrier Protein Specificity α . <i>Biochemistry</i> , 2003, 42, 6588-6595.	1.2	62
144	Mechanism and Specificity of an Acyltransferase Domain from a Modular Polyketide Synthase. <i>Biochemistry</i> , 2013, 52, 1839-1841.	1.2	62

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146	Engineered Biosynthesis of Novel Polyketides: Analysis of tcmN Function in Tetracenomycin Biosynthesis. <i>Journal of the American Chemical Society</i> , 1995, 117, 6805-6810.	6.6	60
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