

Chaitan Khosla

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

353
papers

22,593
citations

81
h-index

133
g-index

369
ext. papers

25,025
ext. citations

10.5
avg, IF

6.94
L-index

#	Paper	IF	Citations
353	Early non-neutralizing, afucosylated antibody responses are associated with COVID-19 severity.. <i>Science Translational Medicine</i> , 2022 , 14, eabm7853	17.5	10
352	Fragment antigen binding domains (Fs) as tools to study assembly-line polyketide synthases.. <i>Synthetic and Systems Biotechnology</i> , 2022 , 7, 506-512	4.2	0
351	An efficient urine peptidomics workflow identifies chemically defined dietary gluten peptides from patients with celiac disease.. <i>Nature Communications</i> , 2022 , 13, 888	17.4	0
350	KIRCD8 T cells suppress pathogenic T cells and are active in autoimmune diseases and COVID-19.. <i>Science</i> , 2022 , 376, eabi9591	33.3	15
349	Mapping the catalytic conformations of an assembly-line polyketide synthase module. <i>Science</i> , 2021 , 374, 729-734	33.3	8
348	Prospects for Antibacterial Discovery and Development. <i>Journal of the American Chemical Society</i> , 2021 ,	16.4	7
347	Solution Structure and Conformational Flexibility of a Polyketide Synthase Module.. <i>Jacs Au</i> , 2021 , 1, 2162-2171		1
346	Peginterferon Lambda-1a for treatment of outpatients with uncomplicated COVID-19: a randomized placebo-controlled trial. <i>Nature Communications</i> , 2021 , 12, 1967	17.4	49
345	Properties of a "Split-and-Stuttering" Module of an Assembly Line Polyketide Synthase. <i>Journal of Organic Chemistry</i> , 2021 , 86, 11100-11106	4.2	0
344	SARS-CoV-2 Subgenomic RNA Kinetics in Longitudinal Clinical Samples. <i>Open Forum Infectious Diseases</i> , 2021 , 8, ofab310	1	10
343	GRINS: Genetic elements that recode assembly-line polyketide synthases and accelerate their diversification. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	2
342	An Unusual "OR" Gate for Allosteric Regulation of Mammalian Transglutaminase 2 in the Extracellular Matrix. <i>Journal of the American Chemical Society</i> , 2021 , 143, 10537-10540	16.4	2
341	50 Years Ago in The Journal of Pediatrics: Association of Type 1 Diabetes Mellitus and Celiac Disease: Then and Now. <i>Journal of Pediatrics</i> , 2021 , 230, 70	3.6	0
340	The COVID-19 Outpatient Pragmatic Platform Study (COPPS): Study design of a multi-center pragmatic platform trial. <i>Contemporary Clinical Trials</i> , 2021 , 108, 106509	2.3	1
339	Structure and Mechanism of the Ketosynthase-Chain Length Factor Didomain From a Prototypical Polyunsaturated Fatty Acid Synthase. <i>Biochemistry</i> , 2020 , 59, 4735-4743	3.2	1
338	Complete Reconstitution and Deorphanization of the 3 MDa Nocardiosis-Associated Polyketide Synthase. <i>Journal of the American Chemical Society</i> , 2020 , 142, 5952-5957	16.4	12
337	Characterization of Natural Product Biosynthetic Pathways by In Vitro Reconstitution 2020 , 307-317		0

336	Enhancing the Antiviral Efficacy of RNA-Dependent RNA Polymerase Inhibition by Combination with Modulators of Pyrimidine Metabolism. <i>Cell Chemical Biology</i> , 2020 , 27, 668-677.e9	8.2	12
335	IL-15, gluten and HLA-DQ8 drive tissue destruction in coeliac disease. <i>Nature</i> , 2020 , 578, 600-604	50.4	65
334	Challenges and opportunities for engineering assembly-line polyketide biosynthesis in. <i>Metabolic Engineering Communications</i> , 2020 , 10, e00106	6.5	2
333	A genome-wide analysis of targets of macrolide antibiotics in mammalian cells. <i>Journal of Biological Chemistry</i> , 2020 , 295, 2057-2067	5.4	5
332	Substrates, inhibitors, and probes of mammalian transglutaminase 2. <i>Analytical Biochemistry</i> , 2020 , 591, 113560	3.1	10
331	Antibody Probes of Module 1 of the 6-Deoxyerythronolide B Synthase Reveal an Extended Conformation During Ketoreduction. <i>Journal of the American Chemical Society</i> , 2020 , 142, 14933-14939	16.4	4
330	Discovery of small molecule inhibitors of human uridine-cytidine kinase 2 by high-throughput screening. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2019 , 29, 2559-2564	2.9	7
329	Engineering of Chimeric Polyketide Synthases Using SYNZIP Docking Domains. <i>ACS Chemical Biology</i> , 2019 , 14, 426-433	4.9	19
328	Tunable Enzymatic Synthesis of the Immunomodulator Lipid IV To Enable Structure-Activity Analysis. <i>Journal of the American Chemical Society</i> , 2019 , 141, 9474-9478	16.4	2
327	In Vivo Measurement of Redox-Regulated TG2 Activity. <i>Methods in Molecular Biology</i> , 2019 , 1967, 263-274	4.1	1
326	Latiglutenase Treatment for Celiac Disease: Symptom and Quality of Life Improvement for Seropositive Patients on a Gluten-Free Diet. <i>GastroHep</i> , 2019 , 1, 293-301	1	13
325	Evolution and Diversity of Assembly-Line Polyketide Synthases. <i>Chemical Reviews</i> , 2019 , 119, 12524-12548	68.1	74
324	From Active Sites to Machines: A Challenge for Enzyme Chemists. <i>Israel Journal of Chemistry</i> , 2019 , 59, 37-40	3.4	1
323	HEX: A heterologous expression platform for the discovery of fungal natural products. <i>Science Advances</i> , 2018 , 4, eaar5459	14.3	106
322	Endoplasmic reticulum-resident protein 57 (ERp57) oxidatively inactivates human transglutaminase 2. <i>Journal of Biological Chemistry</i> , 2018 , 293, 2640-2649	5.4	23
321	Cystamine and Disulfiram Inhibit Human Transglutaminase 2 via an Oxidative Mechanism. <i>Biochemistry</i> , 2018 , 57, 3359-3363	3.2	17
320	Interleukin 4 is inactivated via selective disulfide-bond reduction by extracellular thioredoxin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 8781-8786	11.5	10
319	Discovery and Characterization of a Thioesterase-Specific Monoclonal Antibody That Recognizes the 6-Deoxyerythronolide B Synthase. <i>Biochemistry</i> , 2018 , 57, 6201-6208	3.2	6

318	A tribute to Professor Jay Bailey: A pioneer in biochemical engineering. <i>AICHE Journal</i> , 2018 , 64, 4179-4181	16.4	27
317	Structure-Function Analysis of the Extended Conformation of a Polyketide Synthase Module. <i>Journal of the American Chemical Society</i> , 2018 , 140, 6518-6521	16.4	27
316	Mechanism and Stereochemistry of Polyketide Chain Elongation and Methyl Group Epimerization in Polyether Biosynthesis. <i>Journal of the American Chemical Society</i> , 2017 , 139, 3283-3292	16.4	14
315	Celiac Disease: Lessons for and from Chemical Biology. <i>ACS Chemical Biology</i> , 2017 , 12, 1455-1459	4.9	6
314	Elucidation of the Stereospecificity of C-Methyltransferases from trans-AT Polyketide Synthases. <i>Journal of the American Chemical Society</i> , 2017 , 139, 6102-6105	16.4	12
313	Heterologous expression of diverse propionyl-CoA carboxylases affects polyketide production in <i>Escherichia coli</i> . <i>Journal of Antibiotics</i> , 2017 , 70, 859-863	3.7	6
312	Human pyrimidine nucleotide biosynthesis as a target for antiviral chemotherapy. <i>Current Opinion in Biotechnology</i> , 2017 , 48, 127-134	11.4	34
311	Real-Time in Vivo Detection of HO Using Hyperpolarized C-Thiourea. <i>ACS Chemical Biology</i> , 2017 , 12, 1737-1742	4.9	16
310	A B-Cell Gene Signature Correlates With the Extent of Gluten-Induced Intestinal Injury in Celiac Disease. <i>Cellular and Molecular Gastroenterology and Hepatology</i> , 2017 , 4, 1-17	7.9	7
309	Reovirus infection triggers inflammatory responses to dietary antigens and development of celiac disease. <i>Science</i> , 2017 , 356, 44-50	33.3	264
308	Thioredoxin-1 Selectively Activates Transglutaminase 2 in the Extracellular Matrix of the Small Intestine: IMPLICATIONS FOR CELIAC DISEASE. <i>Journal of Biological Chemistry</i> , 2017 , 292, 2000-2008	5.4	27
307	Genetic Mapping and Biochemical Basis of Yellow Feather Pigmentation in Budgerigars. <i>Cell</i> , 2017 , 171, 427-439.e21	56.2	70
306	Biosynthesis and structure-activity relationships of the lipid a family of glycolipids. <i>Current Opinion in Chemical Biology</i> , 2017 , 40, 127-137	9.7	14
305	The Conformational Flexibility of the Acyltransferase from the Disorazole Polyketide Synthase Is Revealed by an X-ray Free-Electron Laser Using a Room-Temperature Sample Delivery Method for Serial Crystallography. <i>Biochemistry</i> , 2017 , 56, 4751-4756	3.2	17
304	Latiglutenase Improves Symptoms in Seropositive Celiac Disease Patients While on a Gluten-Free Diet. <i>Digestive Diseases and Sciences</i> , 2017 , 62, 2428-2432	4	35
303	Transglutaminase 2 in pulmonary and cardiac tissue remodeling in experimental pulmonary hypertension. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2017 , 313, L752-L762	5.8	22
302	Elucidation of the Cryptic Methyl Group Epimerase Activity of Dehydratase Domains from Modular Polyketide Synthases Using a Tandem Modules Epimerase Assay. <i>Journal of the American Chemical Society</i> , 2017 , 139, 9507-9510	16.4	15
301	Intracellular TG2 Activity Increases Microtubule Stability but is not Sufficient to Prompt Neurite Growth. <i>Neuroscience Bulletin</i> , 2017 , 33, 103-106	4.3	1

300	Cholestyramine as a promising, strong anion exchange resin for direct capture of genetic biomarkers from raw pancreatic fluids. <i>Biotechnology and Bioengineering</i> , 2017 , 114, 934-938	4.9	1
299	Roles of Conserved Active Site Residues in the Ketosynthase Domain of an Assembly Line Polyketide Synthase. <i>Biochemistry</i> , 2016 , 55, 4476-84	3.2	26
298	Structure and mechanism of assembly line polyketide synthases. <i>Current Opinion in Structural Biology</i> , 2016 , 41, 10-18	8.1	81
297	Parallel shRNA and CRISPR-Cas9 screens enable antiviral drug target identification. <i>Nature Chemical Biology</i> , 2016 , 12, 361-6	11.7	123
296	Epimerase and Reductase Activities of Polyketide Synthase Ketoreductase Domains Utilize the Same Conserved Tyrosine and Serine Residues. <i>Biochemistry</i> , 2016 , 55, 1179-86	3.2	18
295	Gluten Introduction, Breastfeeding, and Celiac Disease: Back to the Drawing Board. <i>American Journal of Gastroenterology</i> , 2016 , 111, 12-4	0.7	17
294	Partial In Vitro Reconstitution of an Orphan Polyketide Synthase Associated with Clinical Cases of Nocardiosis. <i>ACS Chemical Biology</i> , 2016 , 11, 2636-41	4.9	17
293	A Turnstile Mechanism for the Controlled Growth of Biosynthetic Intermediates on Assembly Line Polyketide Synthases. <i>ACS Central Science</i> , 2016 , 2, 14-20	16.8	33
292	Thiol-Disulfide Exchange Reactions in the Mammalian Extracellular Environment. <i>Annual Review of Chemical and Biomolecular Engineering</i> , 2016 , 7, 197-222	8.9	44
291	Recognition of acyl carrier proteins by ketoreductases in assembly line polyketide synthases. <i>Journal of Antibiotics</i> , 2016 , 69, 507-10	3.7	11
290	Protein-Protein Interactions, Not Substrate Recognition, Dominate the Turnover of Chimeric Assembly Line Polyketide Synthases. <i>Journal of Biological Chemistry</i> , 2016 , 291, 16404-15	5.4	40
289	Quo vadis, enzymology?. <i>Nature Chemical Biology</i> , 2015 , 11, 438-41	11.7	12
288	Reconstitution of Metabolic Pathways: Insights into Nature's Chemical Logic. <i>Synlett</i> , 2015 , 26, 1008-1025	2.2	20
287	Therapeutic approaches for celiac disease. <i>Baillieres Best Practice and Research in Clinical Gastroenterology</i> , 2015 , 29, 503-21	2.5	37
286	An unprecedented dual antagonist and agonist of human Transglutaminase 2. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2015 , 25, 4922-4926	2.9	8
285	Macrolides and Antifungals via Biotransformation. <i>Methods and Principles in Medicinal Chemistry</i> , 2014 , 365-402	0.4	
284	Elevated transglutaminase 2 activity is associated with hypoxia-induced experimental pulmonary hypertension in mice. <i>ACS Chemical Biology</i> , 2014 , 9, 266-75	4.9	43
283	Discovery of potent and specific dihydroisoxazole inhibitors of human transglutaminase 2. <i>Journal of Medicinal Chemistry</i> , 2014 , 57, 9042-64	8.3	32

282	Role of hypoxia-induced transglutaminase 2 in pulmonary artery smooth muscle cell proliferation. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2014 , 307, L576-85	5.8	31
281	Elucidation of the cryptic epimerase activity of redox-inactive ketoreductase domains from modular polyketide synthases by tandem equilibrium isotope exchange. <i>Journal of the American Chemical Society</i> , 2014 , 136, 10190-3	16.4	22
280	Dihydroisoxazole inhibitors of <i>Anopheles gambiae</i> seminal transglutaminase AgTG3. <i>Malaria Journal</i> , 2014 , 13, 210	3.6	9
279	Generation of food-grade recombinant <i>Lactobacillus casei</i> delivering <i>Myxococcus xanthus</i> prolyl endopeptidase. <i>Applied Microbiology and Biotechnology</i> , 2014 , 98, 6689-700	5.7	19
278	Assembly line polyketide synthases: mechanistic insights and unsolved problems. <i>Biochemistry</i> , 2014 , 53, 2875-83	3.2	93
277	Use of transmission electron microscopy to identify nanocrystals of challenging protein targets. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 8470-5	11.5	45
276	Architectures of whole-module and bimodular proteins from the 6-deoxyerythronolide B synthase. <i>Journal of Molecular Biology</i> , 2014 , 426, 2229-45	6.5	54
275	Comparative analysis of the substrate specificity of trans- versus cis-acyltransferases of assembly line polyketide synthases. <i>Biochemistry</i> , 2014 , 53, 3796-806	3.2	39
274	Computational identification and analysis of orphan assembly-line polyketide synthases. <i>Journal of Antibiotics</i> , 2014 , 67, 89-97	3.7	46
273	The Convergence of Chemistry & Human Biology. <i>Daedalus</i> , 2014 , 143, 43-48	2	2
272	The initiation ketosynthase (FabH) is the sole rate-limiting enzyme of the fatty acid synthase of <i>Synechococcus</i> sp. PCC 7002. <i>Metabolic Engineering</i> , 2014 , 22, 53-9	9.7	23
271	CYP3A4-catalyzed simvastatin metabolism as a non-invasive marker of small intestinal health in celiac disease. <i>American Journal of Gastroenterology</i> , 2013 , 108, 1344-51	0.7	31
270	Analysis and refactoring of the A-74528 biosynthetic pathway. <i>Journal of the American Chemical Society</i> , 2013 , 135, 3752-5	16.4	6
269	Expanding the fluorine chemistry of living systems using engineered polyketide synthase pathways. <i>Science</i> , 2013 , 341, 1089-94	33.3	141
268	Coupled methyl group epimerization and reduction by polyketide synthase ketoreductase domains. Ketoreductase-catalyzed equilibrium isotope exchange. <i>Journal of the American Chemical Society</i> , 2013 , 135, 16324-7	16.4	28
267	In vitro reconstitution and analysis of the 6-deoxyerythronolide B synthase. <i>Journal of the American Chemical Society</i> , 2013 , 135, 16809-12	16.4	52
266	Gluten-sensitive enteropathy coincides with decreased capability of intestinal T cells to secrete IL-17 and IL-22 in a macaque model for celiac disease. <i>Clinical Immunology</i> , 2013 , 147, 40-49	9	17
265	Selective inhibition of extracellular thioredoxin by asymmetric disulfides. <i>Journal of Medicinal Chemistry</i> , 2013 , 56, 1301-10	8.3	37

264	Mechanism and specificity of an acyltransferase domain from a modular polyketide synthase. <i>Biochemistry</i> , 2013 , 52, 1839-41	3.2	47
263	Stereochemistry of reductions catalyzed by methyl-epimerizing ketoreductase domains of polyketide synthases. <i>Journal of the American Chemical Society</i> , 2013 , 135, 7406-9	16.4	23
262	Nonproteinogenic amino acid building blocks for nonribosomal peptide and hybrid polyketide scaffolds. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 7098-124	16.4	233
261	Metabolic flux between unsaturated and saturated fatty acids is controlled by the FabA:FabB ratio in the fully reconstituted fatty acid biosynthetic pathway of <i>Escherichia coli</i> . <i>Biochemistry</i> , 2013 , 52, 8304-12	2.7	16
260	Dietary gluten triggers concomitant activation of CD4+ and CD8+ T cells and T cells in celiac disease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 13073-8	11.5	139
259	Engineering the acyltransferase substrate specificity of assembly line polyketide synthases. <i>Journal of the Royal Society Interface</i> , 2013 , 10, 20130297	4.1	75
258	Nichtproteinogene Aminosäurebausteine für Peptidgerüste aus nichtribosomalen Peptiden und hybriden Polyketiden. <i>Angewandte Chemie</i> , 2013 , 125, 7238-7265	3.6	31
257	Discovery and Mechanism of Type III Secretion System Inhibitors. <i>Israel Journal of Chemistry</i> , 2013 , 53, 577-587	3.4	4
256	Precursor-Directed Biosynthesis of Polyketide and Nonribosomal Peptide Natural Products 2012 , 485-512		1
255	Regulation of the activities of the mammalian transglutaminase family of enzymes. <i>Protein Science</i> , 2012 , 21, 1781-91	6.3	42
254	Role of transglutaminase 2 in celiac disease pathogenesis. <i>Seminars in Immunopathology</i> , 2012 , 34, 513-22		53
253	Molecular insights into the biosynthesis of guadinomine: a type III secretion system inhibitor. <i>Journal of the American Chemical Society</i> , 2012 , 134, 17797-806	16.4	62
252	Role of a conserved arginine residue in linkers between the ketosynthase and acyltransferase domains of multimodular polyketide synthases. <i>Biochemistry</i> , 2012 , 51, 3708-10	3.2	22
251	Oral enzyme therapy for celiac sprue. <i>Methods in Enzymology</i> , 2012 , 502, 241-71	1.7	57
250	Precursor directed biosynthesis of an orthogonally functional erythromycin analogue: selectivity in the ribosome macrolide binding pocket. <i>Journal of the American Chemical Society</i> , 2012 , 134, 12259-65	16.4	48
249	Activation and inhibition of transglutaminase 2 in mice. <i>PLoS ONE</i> , 2012 , 7, e30642	3.7	48
248	Engineering <i>Escherichia coli</i> for Biotransformation of Biomass into Fatty Acid Derived Fuels. <i>Current Chemical Biology</i> , 2012 , 6, 7-13	0.4	1
247	Natural product inhibitors of glucose-6-phosphate translocase. <i>MedChemComm</i> , 2012 , 3, 926	5	12

246	Resolving multiple protein-peptide binding events: implication for HLA-DQ2 mediated antigen presentation in celiac disease. <i>Chemistry - an Asian Journal</i> , 2012 , 7, 992-9	4.5	8
245	Combinatorial biosynthesis of polyketides--a perspective. <i>Current Opinion in Chemical Biology</i> , 2012 , 16, 117-23	9.7	110
244	Interferon- γ activates transglutaminase 2 via a phosphatidylinositol-3-kinase-dependent pathway: implications for celiac sprue therapy. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2012 , 341, 104-14	4.7	25
243	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, 4110-5	11.5	81
242	Engineering Escherichia coli for Biotransformation of Biomass into Fatty Acid Derived Fuels. <i>Current Chemical Biology</i> , 2012 , 6, 7-13	0.4	
241	Chemistry and biology of macrolide antiparasitic agents. <i>Journal of Medicinal Chemistry</i> , 2011 , 54, 2792-804	8.4	24
240	Engineered biosynthesis of the antiparasitic agent frenolicin B and rationally designed analogs in a heterologous host. <i>Journal of Antibiotics</i> , 2011 , 64, 759-62	3.7	13
239	In vitro and in vivo activity of frenolicin B against Plasmodium falciparum and P berghei. <i>Journal of Antibiotics</i> , 2011 , 64, 799-801	3.7	9
238	Protein Engineering of Modular Polyketide Synthases 2011 , 797-827		
237	Novel therapies for coeliac disease. <i>Journal of Internal Medicine</i> , 2011 , 269, 604-13	10.8	83
236	Improved precursor-directed biosynthesis in E. coli via directed evolution. <i>Journal of Antibiotics</i> , 2011 , 64, 59-64	3.7	18
235	Analysis of the ketosynthase-chain length factor heterodimer from the fredericamycin polyketide synthase. <i>Chemistry and Biology</i> , 2011 , 18, 1021-31		12
234	Novel chemo-sensitizing agent, ERW1227B, impairs cellular motility and enhances cell death in glioblastomas. <i>Journal of Neuro-Oncology</i> , 2011 , 103, 207-19	4.8	13
233	Probing the interactions of an acyl carrier protein domain from the 6-deoxyerythronolide B synthase. <i>Protein Science</i> , 2011 , 20, 1244-55	6.3	42
232	Better than Sliced Bread 2011 , 155-164		
231	Dihydroisoxazole analogs for labeling and visualization of catalytically active transglutaminase 2. <i>Chemistry and Biology</i> , 2011 , 18, 58-66		19
230	Activation of extracellular transglutaminase 2 by thioredoxin. <i>Journal of Biological Chemistry</i> , 2011 , 286, 37866-73	5.4	85
229	Structure and mechanism of the trans-acting acyltransferase from the disorazole synthase. <i>Biochemistry</i> , 2011 , 50, 6539-48	3.2	64

228	Acylideneoxindoles: a new class of reversible inhibitors of human transglutaminase 2. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2011 , 21, 2692-6	2.9	52
227	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, 18643-8	11.5	121
226	Inhibition of tubulogenesis and of carcinogen-mediated signaling in brain endothelial cells highlight the antiangiogenic properties of a mumbaistatin analog. <i>Chemical Biology and Drug Design</i> , 2010 , 75, 481-8	2.9	12
225	Characterization of transglutaminase type II role in dendritic cell differentiation and function. <i>Journal of Leukocyte Biology</i> , 2010 , 88, 181-8	6.5	27
224	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, 22066-71	11.5	68
223	Thematic minireview series on antibacterial natural products: new tricks for old dogs. <i>Journal of Biological Chemistry</i> , 2010 , 285, 27499	5.4	1
222	In living color: bacterial pigments as an untapped resource in the classroom and beyond. <i>PLoS Biology</i> , 2010 , 8, e1000510	9.7	17
221	Protein-protein recognition between acyltransferases and acyl carrier proteins in multimodular polyketide synthases. <i>Biochemistry</i> , 2010 , 49, 95-102	3.2	44
220	Stereospecificity of the dehydratase domain of the erythromycin polyketide synthase. <i>Journal of the American Chemical Society</i> , 2010 , 132, 14697-9	16.4	58
219	Redox regulation of transglutaminase 2 activity. <i>Journal of Biological Chemistry</i> , 2010 , 285, 25402-9	5.4	135
218	Genetic engineering of <i>Escherichia coli</i> for biofuel production. <i>Annual Review of Genetics</i> , 2010 , 44, 53-69	14.5	106
217	Chemistry. A balancing act for Taxol precursor pathways in <i>E. coli</i> . <i>Science</i> , 2010 , 330, 44-5	33.3	13
216	Cloning, sequencing, heterologous expression, and mechanistic analysis of A-74528 biosynthesis. <i>Journal of the American Chemical Society</i> , 2010 , 132, 9122-8	16.4	17
215	Mechanism and engineering of polyketide chain initiation in fredericamycin biosynthesis. <i>Journal of the American Chemical Society</i> , 2010 , 132, 8831-3	16.4	15
214	Novel aspects of quantitation of immunogenic wheat gluten peptides by liquid chromatography-mass spectrometry/mass spectrometry. <i>Journal of Chromatography A</i> , 2010 , 1217, 4167-83	14.5	83
213	Quantitative analysis and engineering of fatty acid biosynthesis in <i>E. coli</i> . <i>Metabolic Engineering</i> , 2010 , 12, 378-86	9.7	179
212	Visualization of transepithelial passage of the immunogenic 33-residue peptide from alpha-2 gliadin in gluten-sensitive macaques. <i>PLoS ONE</i> , 2010 , 5, e10228	3.7	25
211	Interferon-gamma released by gluten-stimulated celiac disease-specific intestinal T cells enhances the transepithelial flux of gluten peptides. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2009 , 329, 657-68	4.7	26

210	Modular biocatalysts. <i>AICHE Journal</i> , 2009 , 55, 1926-1929	3.6	1
209	Revisiting the modularity of modular polyketide synthases. <i>Current Opinion in Chemical Biology</i> , 2009 , 13, 135-43	9.7	78
208	Noninflammatory gluten peptide analogs as biomarkers for celiac sprue. <i>Chemistry and Biology</i> , 2009 , 16, 868-81		12
207	In vivo and in vitro analysis of the hedamycin polyketide synthase. <i>Chemistry and Biology</i> , 2009 , 16, 1197-207		20
206	A food-grade enzyme preparation with modest gluten detoxification properties. <i>PLoS ONE</i> , 2009 , 4, e63137	3.7	64
205	Structures and mechanisms of polyketide synthases. <i>Journal of Organic Chemistry</i> , 2009 , 74, 6416-20	4.2	70
204	Biosynthesis of aromatic polyketides in bacteria. <i>Accounts of Chemical Research</i> , 2009 , 42, 631-9	24.3	147
203	Evidence for transcriptional regulation of the glucose-6-phosphate transporter by HIF-1alpha: Targeting G6PT with mumbaistatin analogs in hypoxic mesenchymal stromal cells. <i>Stem Cells</i> , 2009 , 27, 489-97	5.8	36
202	The biochemical basis for stereochemical control in polyketide biosynthesis. <i>Journal of the American Chemical Society</i> , 2009 , 131, 18501-11	16.4	69
201	The Diversity of Nuclear Magnetic Resonance Spectroscopy. <i>NATO Science for Peace and Security Series B: Physics and Biophysics</i> , 2009 , 65-81	0.2	
200	Stereospecificity of ketoreductase domains 1 and 2 of the tylactone modular polyketide synthase. <i>Journal of the American Chemical Society</i> , 2008 , 130, 11598-9	16.4	39
199	Protein engineering of improved prolyl endopeptidases for celiac sprue therapy. <i>Protein Engineering, Design and Selection</i> , 2008 , 21, 699-707	1.9	71
198	Evolution of polyketide synthases in bacteria. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 4595-600	11.5	133
197	Parallels between pathogens and gluten peptides in celiac sprue. <i>PLoS Pathogens</i> , 2008 , 4, e34	7.6	46
196	A non-human primate model for gluten sensitivity. <i>PLoS ONE</i> , 2008 , 3, e1614	3.7	61
195	Extracellular transglutaminase 2 is catalytically inactive, but is transiently activated upon tissue injury. <i>PLoS ONE</i> , 2008 , 3, e1861	3.7	148
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