

Karl Gruber

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.

197
papers

6,204
citations

45
h-index

65
g-index

208
ext. papers

7,011
ext. citations

6.4
avg, IF

5.53
L-index

#	Paper	IF	Citations
197	Residue-Specific Incorporation of the Non-Canonical Amino Acid Norleucine Improves Lipase Activity on Synthetic Polyesters.. <i>Frontiers in Bioengineering and Biotechnology</i> , 2022 , 10, 769830	5.8	1
196	Small-Molecule Inhibitors Targeting Lipolysis in Human Adipocytes.. <i>Journal of the American Chemical Society</i> , 2022 ,	16.4	2
195	Binding of dipeptidyl peptidase III to the oxidative stress cell sensor Kelch-like ECH-associated protein 1 is a two-step process. <i>Journal of Biomolecular Structure and Dynamics</i> , 2021 , 39, 6870-6881	3.6	2
194	The catalytic machinery of the FAD-dependent AtBBE-like protein 15 for alcohol oxidation: Y193 and Y479 form a catalytic base, Q438 and R292 an alkoxide binding site. <i>Archives of Biochemistry and Biophysics</i> , 2021 , 700, 108766	4.1	2
193	Structural basis for inhibition of the AAA-ATPase Drg1 by diazaborine. <i>Nature Communications</i> , 2021 , 12, 3483	17.4	3
192	The sustainable synthesis of levetiracetam by an enzymatic dynamic kinetic resolution and an ex-cell anodic oxidation. <i>Green Chemistry</i> , 2021 , 23, 388-395	10	12
191	Serine 477 plays a crucial role in the interaction of the SARS-CoV-2 spike protein with the human receptor ACE2. <i>Scientific Reports</i> , 2021 , 11, 4320	4.9	40
190	Efficient Entropy-Driven Inhibition of Dipeptidyl Peptidase III by Hydroxyethylene Transition-State Peptidomimetics. <i>Chemistry - A European Journal</i> , 2021 , 27, 14108-14120	4.8	3
189	Dipeptidyl peptidase 3 modulates the renin-angiotensin system in mice. <i>Journal of Biological Chemistry</i> , 2020 , 295, 13711-13723	5.4	14
188	Rational Engineered C-Acyltransferase Transforms Sterically Demanding Acyl Donors. <i>ACS Catalysis</i> , 2020 , 10, 1094-1101	13.1	5
187	A Fungal Ascorbate Oxidase with Unexpected Laccase Activity. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	3
186	A small molecule chaperone rescues the stability and activity of a cancer-associated variant of NAD(P)H:quinone oxidoreductase 1 in vitro. <i>FEBS Letters</i> , 2020 , 594, 424-438	3.8	4
185	The Hydrogenobyrinic Acid Structure Reveals the Corrin Ligand as an Entatic State Module Empowering B Cofactors for Catalysis. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 10756-10760	16.4	24
184	Evolving the Promiscuity of Elizabethkingia meningoseptica Oleate Hydratase for the Regio- and Stereoselective Hydration of Oleic Acid Derivatives. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 7480-7484	16.4	22
183	Weiterentwicklung der Substrattoleranz von Elizabethkingia meningoseptica Oleathydratase zur regio- und stereoselektiven Hydratisierung von β -Derivaten. <i>Angewandte Chemie</i> , 2019 , 131, 7558-7563	3.6	5
182	Chemoenzymatic Total Synthesis of Deoxy-, epi-, and Podophyllotoxin and a Biocatalytic Kinetic Resolution of Dibenzylbutyrolactones. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 8226-8230	16.4	37
181	Chemoenzymatische Totalsynthese von Deoxy-, epi- und Podophyllotoxin sowie biokatalytische kinetische Racematspaltung von Dibenzylbutyrolactonen. <i>Angewandte Chemie</i> , 2019 , 131, 8310-8315	3.6	13

180	Zinc Substitution of Cobalt in Vitamin B : Zincobyric acid and Zincobalamin as Luminescent Structural B -Mimics. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 14568-14572	16.4	17
179	Zinc Substitution of Cobalt in Vitamin B12: Zincobyric acid and Zincobalamin as Luminescent Structural B12-Mimics. <i>Angewandte Chemie</i> , 2019 , 131, 14710-14714	3.6	4
178	Controlling the Regioselectivity of Fatty Acid Hydroxylation (C10) at α - and β -Position by CYP152A1 (P450Bs) Variants. <i>ChemCatChem</i> , 2019 , 11, 5642-5649	5.2	8
177	Die Hydrogenobyrin-Struktur enthalt den Corrin-Liganden als entatisches Zustandsmodul zur Steigerung der Katalyseaktivitat von B12-Cofaktoren. <i>Angewandte Chemie</i> , 2019 , 131, 10869-10873	3.6	8
176	Substituting the catalytic proline of 4-oxalocrotonate tautomerase with non-canonical analogues reveals a finely tuned catalytic system. <i>Scientific Reports</i> , 2019 , 9, 2697	4.9	4
175	Structure and Catalytic Mechanism of a Bacterial Friedel-Crafts Acylase. <i>ChemBioChem</i> , 2019 , 20, 88-95	3.8	16
174	Asymmetric Reductive Carbocyclization Using Engineered Ene Reductases. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 7240-7244	16.4	27
173	Asymmetrische reduktive Carbocyclisierung durch modifizierte En-Reduktasen. <i>Angewandte Chemie</i> , 2018 , 130, 7360-7364	3.6	10
172	Identification of Key Residues for Enzymatic Carboxylate Reduction. <i>Frontiers in Microbiology</i> , 2018 , 9, 250	5.7	20
171	Asymmetric Amination of β -Chiral Aliphatic Aldehydes via Dynamic Kinetic Resolution to Access Stereocomplementary Brivaracetam and Pregabalin Precursors. <i>Advanced Synthesis and Catalysis</i> , 2018 , 360, 768-778	5.6	22
170	Oxidative cyclization of β -methyl-dopa by a fungal flavoenzyme of the amine oxidase family. <i>Journal of Biological Chemistry</i> , 2018 , 293, 17021-17032	5.4	1
169	Catalytic competence, structure and stability of the cancer-associated R139W variant of the human NAD(P)H:quinone oxidoreductase 1 (NQO1). <i>FEBS Journal</i> , 2017 , 284, 1233-1245	5.7	22
168	Engineering of the zinc-binding domain of an esterase from <i>Clostridium botulinum</i> towards increased activity on polyesters. <i>Catalysis Science and Technology</i> , 2017 , 7, 1440-1447	5.5	12
167	Structure, biochemical and kinetic properties of recombinant Pst2p from <i>Saccharomyces cerevisiae</i> , a FMN-dependent NAD(P)H:quinone oxidoreductase. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2017 , 1865, 1046-1056	4	9
166	Enzyme discovery beyond homology: a unique hydroxynitrile lyase in the Bet v1 superfamily. <i>Scientific Reports</i> , 2017 , 7, 46738	4.9	16
165	Biocatalytic Friedel-Crafts Acylation and Fries Reaction. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 7615-7619	16.4	38
164	Biocatalytic Friedel-Crafts Acylation and Fries Reaction. <i>Angewandte Chemie</i> , 2017 , 129, 7723-7727	3.6	11
163	A conserved inter-domain communication mechanism regulates the ATPase activity of the AAA-protein Drg1. <i>Scientific Reports</i> , 2017 , 7, 44751	4.9	3

162	PpEst is a novel PBAT degrading polyesterase identified by proteomic screening of <i>Pseudomonas pseudoalcaligenes</i> . <i>Applied Microbiology and Biotechnology</i> , 2017 , 101, 2291-2303	5.7	34
161	A novel <i>Porphyromonas gingivalis</i> enzyme: An atypical dipeptidyl peptidase III with an ARM repeat domain. <i>PLoS ONE</i> , 2017 , 12, e0188915	3.7	5
160	Regioselective para-Carboxylation of Catechols with a Prenylated Flavin Dependent Decarboxylase. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 13893-13897	16.4	40
159	Small cause, large effect: Structural characterization of cutinases from <i>Thermobifida cellulolytica</i> . <i>Biotechnology and Bioengineering</i> , 2017 , 114, 2481-2488	4.9	35
158	Polyester hydrolysis is enhanced by a truncated esterase: Less is more. <i>Biotechnology Journal</i> , 2017 , 12,	5.6	17
157	Regioselektive para-Carboxylierung von Catecholen mit einer Prenylflavin-abhängigen Decarboxylase. <i>Angewandte Chemie</i> , 2017 , 129, 14081-14085	3.6	5
156	Crystal Structure and Catalytic Mechanism of CouO, a Versatile C-Methyltransferase from <i>Streptomyces rishiriensis</i> . <i>PLoS ONE</i> , 2017 , 12, e0171056	3.7	8
155	Crystal structure of dipeptidyl peptidase III from the human gut symbiont <i>Bacteroides thetaiotaomicron</i> . <i>PLoS ONE</i> , 2017 , 12, e0187295	3.7	9
154	Chlorophyll-Derived Yellow Phyllobilins of Higher Plants as Medium-Responsive Chiral Photoswitches. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 15760-15765	16.4	18
153	Total Synthesis, Structure, and Biological Activity of Adenosylrhodibalamin, the Non-Natural Rhodium Homologue of Coenzyme B12. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 11281-6	16.4	33
152	Substrate complexes of human dipeptidyl peptidase III reveal the mechanism of enzyme inhibition. <i>Scientific Reports</i> , 2016 , 6, 23787	4.9	29
151	Totalsynthese, Struktur und biologische Aktivität von Adenosylrhodibalamin, dem unnatürlichen Rhodiumhomologen von Coenzym B12. <i>Angewandte Chemie</i> , 2016 , 128, 11451-11456	3.6	7
150	Von Chlorophyll abstammende gelbe Phyllobiline höherer Pflanzen als umgebungsgesteuerte, chirale Photoschalter. <i>Angewandte Chemie</i> , 2016 , 128, 15992-15997	3.6	4
149	Innentitelbild: Von Chlorophyll abstammende gelbe Phyllobiline höherer Pflanzen als umgebungsgesteuerte, chirale Photoschalter (Angew. Chem. 51/2016). <i>Angewandte Chemie</i> , 2016 , 128, 15912-15912	3.6	
148	Coenzyme B12 Repurposed for Photoregulation of Gene Expression. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 5638-40	16.4	12
147	Hydrolysis of synthetic polyesters by <i>Clostridium botulinum</i> esterases. <i>Biotechnology and Bioengineering</i> , 2016 , 113, 1024-34	4.9	43
146	Structural characterization of a <i>Vatairea macrocarpa</i> lectin in complex with a tumor-associated antigen: A new tool for cancer research. <i>International Journal of Biochemistry and Cell Biology</i> , 2016 , 72, 27-39	5.6	11
145	Characterization of a poly(butylene adipate-co-terephthalate)-hydrolyzing lipase from <i>Pelosinus fermentans</i> . <i>Applied Microbiology and Biotechnology</i> , 2016 , 100, 1753-1764	5.7	49

144	An Esterase from Anaerobic Clostridium hathewayi Can Hydrolyze Aliphatic-Aromatic Polyesters. <i>Environmental Science & Technology</i> , 2016 , 50, 2899-907	10.3	24
143	Crystal structure of the Saccharomyces cerevisiae monoglyceride lipase Yju3p. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2016 , 1861, 462-70	5	17
142	Improving enzymatic polyurethane hydrolysis by tuning enzyme sorption. <i>Polymer Degradation and Stability</i> , 2016 , 132, 69-77	4.7	46
141	Structure of a Berberine Bridge Enzyme-Like Enzyme with an Active Site Specific to the Plant Family Brassicaceae. <i>PLoS ONE</i> , 2016 , 11, e0156892	3.7	20
140	Coenzym B12 �mfunktioniert �die Photoregulation der Genexpression. <i>Angewandte Chemie</i> , 2016 , 128, 5728-5730	3.6	4
139	Discovery and structural characterisation of new Fold type IV-transaminases exemplify the diversity of this enzyme fold. <i>Scientific Reports</i> , 2016 , 6, 38183	4.9	23
138	Structural and kinetic studies on RosA, the enzyme catalysing the methylation of 8-demethyl-8-amino-d-riboflavin to the antibiotic roseoflavin. <i>FEBS Journal</i> , 2016 , 283, 1531-49	5.7	11
137	Structures of almond hydroxynitrile lyase isoenzyme 5 provide a rationale for the lack of oxidoreductase activity in flavin dependent HNLs. <i>Journal of Biotechnology</i> , 2016 , 235, 24-31	3.7	2
136	Structure and biochemical properties of recombinant human dimethylglycine dehydrogenase and comparison to the disease-related H109R variant. <i>FEBS Journal</i> , 2016 , 283, 3587-3603	5.7	11
135	Complete switch from �,3- to �,6-regioselectivity in Pasteurella dagmatis �D-galactoside sialyltransferase by active-site redesign. <i>Chemical Communications</i> , 2015 , 51, 3083-6	5.8	35
134	Improving the Properties of Bacterial R-Selective Hydroxynitrile Lyases for Industrial Applications. <i>ChemCatChem</i> , 2015 , 7, 325-332	5.2	22
133	Structural and biochemical properties of LuxF from Photobacterium leiognathi. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2015 , 1854, 1466-75	4	9
132	Anthranoyl-CoA monooxygenase/reductase from Azoarcus evansii possesses both FMN and FAD in two distinct and independent active sites. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2015 , 1854, 890-6	4	4
131	Oxidation of Monolignols by Members of the Berberine Bridge Enzyme Family Suggests a Role in Plant Cell Wall Metabolism. <i>Journal of Biological Chemistry</i> , 2015 , 290, 18770-81	5.4	55
130	Regioselective Enzymatic �Carboxylation of -Hydroxy- styrene Derivatives Catalyzed by Phenolic Acid Decarboxylases. <i>Advanced Synthesis and Catalysis</i> , 2015 , 357, 1909-1918	5.6	41
129	Structure-Based Mechanism of Oleate Hydratase from Elizabethkingia meningoseptica. <i>ChemBioChem</i> , 2015 , 16, 1730-4	3.8	49
128	Structure of human dipeptidyl peptidase 10 (DPPY): a modulator of neuronal Kv4 channels. <i>Scientific Reports</i> , 2015 , 5, 8769	4.9	19
127	The crystal structure of D-threonine aldolase from Alcaligenes xylosoxidans provides insight into a metal ion assisted PLP-dependent mechanism. <i>PLoS ONE</i> , 2015 , 10, e0124056	3.7	14

126	High-resolution structure of a new Tn antigen-binding lectin from <i>Vatairea macrocarpa</i> and a comparative analysis of Tn-binding legume lectins. <i>International Journal of Biochemistry and Cell Biology</i> , 2015 , 59, 103-10	5.6	22
125	Regioselective ortho-carboxylation of phenols catalyzed by benzoic acid decarboxylases: a biocatalytic equivalent to the Kolbe-Schmitt reaction. <i>RSC Advances</i> , 2014 , 4, 9673	3.7	37
124	Thermostability improvement of endoglucanase Cel7B from <i>Hypocrea pseudokoningii</i> . <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2014 , 103, 16-23		10
123	Structure and stability of an unusual zinc-binding protein from <i>Bacteroides thetaiotaomicron</i> . <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2014 , 1844, 2298-305	4	1
122	Two promising biocatalytic tools: regioselective carboxylation of aromatics and asymmetric hydration of alkenes. <i>New Biotechnology</i> , 2014 , 31, S1	6.4	
121	Cofactor Specificity Engineering of <i>Streptococcus mutans</i> NADH Oxidase 2 For NAD(P)(+) Regeneration in Biocatalytic Oxidations. <i>Computational and Structural Biotechnology Journal</i> , 2014 , 9, e201402005	6.8	37
120	Converting Aspartase into a β -Amino Acid Lyase by Cluster Screening. <i>ChemCatChem</i> , 2014 , 6, 965-968	5.2	12
119	Collapse of the native structure caused by a single amino acid exchange in human NAD(P)H:quinone oxidoreductase(1.). <i>FEBS Journal</i> , 2014 , 281, 4691-4704	5.7	45
118	Unique crystal structure of a novel surfactant protein from the foam nest of the frog <i>Leptodactylus vastus</i> . <i>ChemBioChem</i> , 2014 , 15, 393-8	3.8	13
117	Crystal structure of an (R)-selective β -transaminase from <i>Aspergillus terreus</i> . <i>PLoS ONE</i> , 2014 , 9, e87350	3.7	53
116	Disruption of the methyltransferase-like 23 gene METTL23 causes mild autosomal recessive intellectual disability. <i>Human Molecular Genetics</i> , 2014 , 23, 4015-23	5.6	23
115	Identification of promiscuous ene-reductase activity by mining structural databases using active site constellations. <i>Nature Communications</i> , 2014 , 5, 4150	17.4	53
114	Structural studies of an anti-inflammatory lectin from <i>Canavalia boliviana</i> seeds in complex with dimannosides. <i>PLoS ONE</i> , 2014 , 9, e97015	3.7	19
113	Crystal structure of <i>Dioclea violacea</i> lectin and a comparative study of vasorelaxant properties with <i>Dioclea rostrata</i> lectin. <i>International Journal of Biochemistry and Cell Biology</i> , 2013 , 45, 807-15	5.6	25
112	Biochemical and structural characterization of a novel bacterial manganese-dependent hydroxynitrile lyase. <i>FEBS Journal</i> , 2013 , 280, 5815-28	5.7	35
111	Targeting the substrate binding site of <i>E. coli</i> nitrile reductase QueF by modeling, substrate and enzyme engineering. <i>Chemistry - A European Journal</i> , 2013 , 19, 7007-12	4.8	21
110	Asymmetric enzymatic hydration of hydroxystyrene derivatives. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 2293-7	16.4	59
109	Access to organometallic arylcobaltcorrins through radical synthesis: 4-ethylphenylcobalamin, a potential "antivitamin B(12)". <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 2606-10	16.4	50

108	Fusion of binding domains to <i>Thermobifida cellulolytica</i> cutinase to tune sorption characteristics and enhancing PET hydrolysis. <i>Biomacromolecules</i> , 2013 , 14, 1769-76	6.9	102
107	Conformational plasticity and ligand binding of bacterial monoacylglycerol lipase. <i>Journal of Biological Chemistry</i> , 2013 , 288, 31093-104	5.4	30
106	Enzymatic aerobic alkene cleavage catalyzed by a Mn(3+) -dependent proteinase a homologue. <i>ChemBioChem</i> , 2013 , 14, 2427-30	3.8	12
105	Surface engineering of a cutinase from <i>Thermobifida cellulolytica</i> for improved polyester hydrolysis. <i>Biotechnology and Bioengineering</i> , 2013 , 110, 2581-90	4.9	85
104	Asymmetric Enzymatic Hydration of Hydroxystyrene Derivatives. <i>Angewandte Chemie</i> , 2013 , 125, 2349-2353	3.6	15
103	The 2.5 Å structure of the enterococcus conjugation protein TraM resembles VirB8 type IV secretion proteins. <i>Journal of Biological Chemistry</i> , 2013 , 288, 2018-28	5.4	47
102	The structure of glycerol trinitrate reductase NerA from <i>Agrobacterium radiobacter</i> reveals the molecular reason for nitro- and ene-reductase activity in OYE homologues. <i>ChemBioChem</i> , 2013 , 14, 836-45	3.8	10
101	Zugang zu metallorganischen Arylcobaltcorrinen durch radikalische Synthese: 4-Ethylphenylcobalamin, ein potenzielles Antivitamin B12. <i>Angewandte Chemie</i> , 2013 , 125, 2668-2672	3.6	16
100	Crystallization and preliminary X-ray diffraction of the surfactant protein Lv-ranaspumin from the frog <i>Leptodactylus vastus</i> . <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2012 , 68, 321-3		2
99	Crystallization of a novel metal-containing cupin from <i>Acidobacterium</i> sp. and preliminary diffraction data analysis. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2012 , 68, 451-4		3
98	Crystallization of the novel S-adenosyl-L-methionine-dependent C-methyltransferase CouO from <i>Streptomyces rishiriensis</i> and preliminary diffraction data analysis. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2012 , 68, 698-700		1
97	Structural and functional characterization of NikO, an enolpyruvyl transferase essential in nikkomycin biosynthesis. <i>Journal of Biological Chemistry</i> , 2012 , 287, 31427-36	5.4	12
96	Can electromagnetic fields influence the structure and enzymatic digest of proteins? A critical evaluation of microwave-assisted proteomics protocols. <i>Journal of Proteomics</i> , 2012 , 75, 5533-43	3.9	39
95	Catalytic and structural role of a conserved active site histidine in berberine bridge enzyme. <i>Biochemistry</i> , 2012 , 51, 6139-47	3.2	13
94	The structure of monoacylglycerol lipase from <i>Bacillus</i> sp. H257 reveals unexpected conservation of the cap architecture between bacterial and human enzymes. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2012 , 1821, 1012-21	5	32
93	Crystal structure of a pro-inflammatory lectin from the seeds of <i>Dioclea wilsonii</i> Standl. <i>Biochimie</i> , 2012 , 94, 525-32	4.6	18
92	Inverting the regioselectivity of the berberine bridge enzyme by employing customized fluorine-containing substrates. <i>Chemistry - A European Journal</i> , 2012 , 18, 13173-9	4.8	25
91	Structures of human DPP7 reveal the molecular basis of specific inhibition and the architectural diversity of proline-specific peptidases. <i>PLoS ONE</i> , 2012 , 7, e43019	3.7	19

90	Crystallization and preliminary X-ray diffraction analysis of human dipeptidyl peptidase 10 (DPPY), a component of voltage-gated potassium channels. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2012 , 68, 214-7		2
89	Tailoring a stabilized variant of hydroxynitrile lyase from <i>Arabidopsis thaliana</i> . <i>ChemBioChem</i> , 2012 , 13, 797-802	3.8	18
88	Hydroxynitrile lyases with a hydrolase fold: two enzymes with almost identical 3D structures but opposite enantioselectivities and different reaction mechanisms. <i>ChemBioChem</i> , 2012 , 13, 1932-9	3.8	21
87	Stereocontrol Strategies in the Asymmetric Bioreduction of Alkenes. <i>Synlett</i> , 2012 , 23, 1857-1864	2.2	22
86	Entropy-driven binding of opioid peptides induces a large domain motion in human dipeptidyl peptidase III. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 6525-30	11.5	51
85	Vascular bioactivation of nitroglycerin by aldehyde dehydrogenase-2: reaction intermediates revealed by crystallography and mass spectrometry. <i>Journal of Biological Chemistry</i> , 2012 , 287, 38124-34	5.4	24
84	A New Esterase from <i>Thermobifida halotolerans</i> Hydrolyses Polyethylene Terephthalate (PET) and Polylactic Acid (PLA). <i>Polymers</i> , 2012 , 4, 617-629	4.5	100
83	A blue corrinoid from partial degradation of vitamin B12 in aqueous bicarbonate: spectra, structure, and interaction with proteins of B12 transport. <i>Biochemistry</i> , 2011 , 50, 8090-101	3.2	18
82	Vitamin B12-derivatives-enzyme cofactors and ligands of proteins and nucleic acids. <i>Chemical Society Reviews</i> , 2011 , 40, 4346-63	58.5	185
81	Methylmalonyl CoA Mutase 2011 ,		1
80	Characterization of the PLP-dependent aminotransferase NikK from <i>Streptomyces tendae</i> and its putative role in nikkomycin biosynthesis. <i>FEBS Journal</i> , 2011 , 278, 4122-35	5.7	16
79	Stereopreferences of Old Yellow Enzymes: Structure Correlations and Sequence Patterns in Enoate Reductases. <i>ChemCatChem</i> , 2011 , 3, 1562-1566	5.2	30
78	Old Yellow Enzyme-Catalyzed Dehydrogenation of Saturated Ketones. <i>Advanced Synthesis and Catalysis</i> , 2011 , 353, 268-274	5.6	46
77	Biokatalytische enantioselektive oxidative C-C-Kupplung durch C-H-Aktivierung mit molekularem Sauerstoff. <i>Angewandte Chemie</i> , 2011 , 123, 1100-1103	3.6	26
76	Biocatalytic enantioselective oxidative C-C coupling by aerobic C-H activation. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 1068-71	16.4	62
75	Enzymatic Surface Hydrolysis of PET: Effect of Structural Diversity on Kinetic Properties of Cutinases from <i>Thermobifida</i> . <i>Macromolecules</i> , 2011 , 44, 4632-4640	5.5	205
74	Molecular recognition determinants for type IV secretion of diverse families of conjugative relaxases. <i>Molecular Microbiology</i> , 2010 , 78, 1539-55	4.1	48
73	Structural insights into substrate specificity and solvent tolerance in alcohol dehydrogenase ADH-'A' from <i>Rhodococcus ruber</i> DSM 44541. <i>Chemical Communications</i> , 2010 , 46, 6314-6	5.8	54

72	Bioreduction of alpha-methylcinnamaldehyde derivatives: chemo-enzymatic asymmetric synthesis of Lilial and Helional. <i>Dalton Transactions</i> , 2010 , 39, 8472-6	4.3	53
71	Engineering of choline oxidase from <i>Arthrobacter nicotianae</i> for potential use as biological bleach in detergents. <i>Applied Microbiology and Biotechnology</i> , 2010 , 87, 1743-52	5.7	11
70	Cutting Long Syntheses Short: Access to Non-Natural Tyrosine Derivatives Employing an Engineered Tyrosine Phenol Lyase. <i>Advanced Synthesis and Catalysis</i> , 2010 , 352, 731-736	5.6	34
69	Isovitamin B12: a vitamin B12 derivative that flips its tail. <i>Chemistry - A European Journal</i> , 2010 , 16, 10984-8	4.8	7
68	Biocatalytic access to alpha,alpha-dialkyl-alpha-amino acids by a mechanism-based approach. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 121-4	16.4	59
67	Directed evolution of <i>Alcaligenes faecalis</i> nitrilase. <i>Enzyme and Microbial Technology</i> , 2010 , 47, 140-146	3.8	32
66	Structural and mechanistic studies reveal the functional role of bicovalent flavinylation in berberine bridge enzyme. <i>Journal of Biological Chemistry</i> , 2009 , 284, 19993-20001	5.4	36
65	Role of the general base Glu-268 in nitroglycerin bioactivation and superoxide formation by aldehyde dehydrogenase-2. <i>Journal of Biological Chemistry</i> , 2009 , 284, 19878-86	5.4	27
64	β and β-oxygenated aldehydes derived from Diels-Alder reactions as substrates for hydroxynitrile lyases. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2009 , 61, 268-273		2
63	VASCo: computation and visualization of annotated protein surface contacts. <i>BMC Bioinformatics</i> , 2009 , 10, 32	3.6	63
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