

Karl Gruber

List of Publications by Year in descending order

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186
papers

7,639
citations

41258

49
h-index

79541

73
g-index

208
all docs

208
docs citations

208
times ranked

6704
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	2.0	3
2	Small-Molecule Inhibitors Targeting Lipolysis in Human Adipocytes. <i>Journal of the American Chemical Society</i> , 2022, 144, 6237-6250.	6.6	16
3	Racemization-free and scalable amidation of α -proline in organic media using ammonia and a biocatalyst only. <i>Green Chemistry</i> , 2022, 24, 5171-5180.	4.6	2
4	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.	4.6	25
5	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.	1.6	93
6	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.	1.4	6
7	Structural basis for inhibition of the AAA-ATPase Drg1 by diazaborine. <i>Nature Communications</i> , 2021, 12, 3483.	5.8	10
8	Efficient Entropy-Driven Inhibition of Dipeptidyl Peptidase III by Hydroxyethylene Transition-State Peptidomimetics. <i>Chemistry - A European Journal</i> , 2021, 27, 14108-14120.	1.7	6
9	A small molecule chaperone rescues the stability and activity of a cancer-associated variant of NAD(P)H:quinone oxidoreductase 1 <i>in vitro</i> . <i>FEBS Letters</i> , 2020, 594, 424-438.	1.3	7
10	Rational Engineered C-Acyltransferase Transforms Sterically Demanding Acyl Donors. <i>ACS Catalysis</i> , 2020, 10, 1094-1101.	5.5	10
11	A Fungal Ascorbate Oxidase with Unexpected Laccase Activity. <i>International Journal of Molecular Sciences</i> , 2020, 21, 5754.	1.8	11
12	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> , 2020, 39, 1-12.	2.0	7
13	Dipeptidyl peptidase 3 modulates the renin-angiotensin system in mice. <i>Journal of Biological Chemistry</i> , 2020, 295, 13711-13723.	1.6	34
14	Zinc Substitution of Cobalt in Vitamin B12: Zincobyrinic acid and Zincobalamin as Luminescent Structural B12-Mimics. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 14568-14572.	7.2	25
15	Zinc Substitution of Cobalt in Vitamin B12: Zincobyrinic acid and Zincobalamin as Luminescent Structural B12-Mimics. <i>Angewandte Chemie</i> , 2019, 131, 14710-14714.	1.6	4
16	Controlling the Regioselectivity of Fatty Acid Hydroxylation (C_{10}) at α - and β -Position by CYP152A1 (P450 B_{51}^2) Variants. <i>ChemCatChem</i> , 2019, 11, 5642-5649.	1.8	15
17	Die Hydrogenobyrinsäure-Struktur enthallt den Corrin-Liganden als entatisches Zustandsmodul zur Steigerung der Katalyseaktivitat von B_{12} -Cofaktoren. <i>Angewandte Chemie</i> , 2019, 131, 10869-10873.	1.6	8
18	The Hydrogenobyrinic Acid Structure Reveals the Corrin Ligand as an Entatic State Module Empowering B_{12} Cofactors for Catalysis. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 10756-10760.	7.2	30

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19	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.	7.2	27
20	Weiterentwicklung der Substrattoleranz von Elizabethkingia meningoseptica Oleathydratase zur regio- und stereoselektiven Hydratisierung von α -IsÄurederivaten. <i>Angewandte Chemie</i> , 2019, 131, 7558-7563.	1.6	8
21	Chemoenzymatic Total Synthesis of Deoxy- <i>epi</i> and Podophyllotoxin and a Biocatalytic Kinetic Resolution of Dibenzylbutyrolactones. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 8226-8230.	7.2	56
22	Chemoenzymatische Totalsynthese von Deoxy- <i>epi</i> und Podophyllotoxin sowie biokatalytische kinetische Racematspaltung von Dibenzylbutyrolactonen. <i>Angewandte Chemie</i> , 2019, 131, 8310-8315.	1.6	14
23	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.	1.6	6
24	Structure and Catalytic Mechanism of a Bacterial Friedel-Crafts Acylase. <i>ChemBioChem</i> , 2019, 20, 88-95.	1.3	27
25	Asymmetric Reductive Carbocyclization Using Engineered Ene Reductases. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 7240-7244.	7.2	41
26	Asymmetrische reduktive Carbocyclisierung durch modifizierte En-Reduktasen. <i>Angewandte Chemie</i> , 2018, 130, 7360-7364.	1.6	14
27	Asymmetric Amination of $\hat{\pm}$ Chiral Aliphatic Aldehydes via Dynamic Kinetic Resolution to Access Stereocomplementary Brivaracetam and Pregabalin Precursors. <i>Advanced Synthesis and Catalysis</i> , 2018, 360, 768-778.	2.1	29
28	Oxidative cyclization of N-methyl-dopa by a fungal flavoenzyme of the amine oxidase family. <i>Journal of Biological Chemistry</i> , 2018, 293, 17021-17032.	1.6	4
29	Identification of Key Residues for Enzymatic Carboxylate Reduction. <i>Frontiers in Microbiology</i> , 2018, 9, 250.	1.5	29
30	Catalytic competence, structure and stability of the cancer-associated R139W variant of the human $\text{NAD(P)H:quinone oxidoreductase 1}$ (NQO1). <i>FEBS Journal</i> , 2017, 284, 1233-1245.	2.2	30
31	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.	2.1	14
32	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.	1.1	12
33	Enzyme discovery beyond homology: a unique hydroxynitrile lyase in the Bet v1 superfamily. <i>Scientific Reports</i> , 2017, 7, 46738.	1.6	21
34	Biocatalytic Friedel-Crafts Acylation and Fries Reaction. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 7615-7619.	7.2	54
35	Biocatalytic Friedel-Crafts Acylation and Fries Reaction. <i>Angewandte Chemie</i> , 2017, 129, 7723-7727.	1.6	11
36	A conserved inter-domain communication mechanism regulates the ATPase activity of the AAA-protein Drg1. <i>Scientific Reports</i> , 2017, 7, 44751.	1.6	4

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37	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.	1.7	82
38	Regioselective <i>para</i> -Carboxylation of Catechols with a Prenylated Flavin Dependent Decarboxylase. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 13893-13897.	7.2	64
39	Small cause, large effect: Structural characterization of cutinases from <i>Thermobifida cellulositica</i> . <i>Biotechnology and Bioengineering</i> , 2017, 114, 2481-2488.	1.7	56
40	Polyester hydrolysis is enhanced by a truncated esterase: Less is more. <i>Biotechnology Journal</i> , 2017, 12, .	1.8	26
41	Regioselektive <i>para</i> -Carboxylierung von Catecholen mit einer Prenylflavin-abhängigen Decarboxylase. <i>Angewandte Chemie</i> , 2017, 129, 14081-14085.	1.6	6
42	A novel <i>Porphyromonas gingivalis</i> enzyme: An atypical dipeptidyl peptidase III with an ARM repeat domain. <i>PLoS ONE</i> , 2017, 12, e0188915.	1.1	8
43	Crystal Structure and Catalytic Mechanism of CouO, a Versatile C-Methyltransferase from <i>Streptomyces rishiriensis</i> . <i>PLoS ONE</i> , 2017, 12, e0171056.	1.1	16
44	Crystal structure of dipeptidyl peptidase III from the human gut symbiont <i>Bacteroides thetaiotaomicron</i> . <i>PLoS ONE</i> , 2017, 12, e0187295.	1.1	14
45	Coenzym B ₁₂ umfunktioniert für die Photoregulation der Genexpression. <i>Angewandte Chemie</i> , 2016, 128, 5728-5730.	1.6	4
46	Discovery and structural characterisation of new fold type IV-transaminases exemplify the diversity of this enzyme fold. <i>Scientific Reports</i> , 2016, 6, 38183.	1.6	36
47	Structural and kinetic studies on RosA, the enzyme catalysing the methylation of 8-demethyl-8-amino-8-riboflavin to the antibiotic roseoflavin. <i>FEBS Journal</i> , 2016, 283, 1531-1549.	2.2	13
48	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.	1.9	3
49	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.	2.2	14
50	Chlorophyll-Derived Yellow Phyllobilins of Higher Plants as Medium-Responsive Chiral Photoswitches. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 15760-15765.	7.2	24
51	Total Synthesis, Structure, and Biological Activity of Adenosylrhodibalamin, the Non-Natural Rhodium Homologue of Coenzyme B ₁₂ . <i>Angewandte Chemie - International Edition</i> , 2016, 55, 11281-11286.	7.2	42
52	Substrate complexes of human dipeptidyl peptidase III reveal the mechanism of enzyme inhibition. <i>Scientific Reports</i> , 2016, 6, 23787.	1.6	41
53	Totalsynthese, Struktur und biologische Aktivität von Adenosylrhodibalamin, dem unnatürlichen Rhodiumhomologen von Coenzym B ₁₂ . <i>Angewandte Chemie</i> , 2016, 128, 11451-11456.	1.6	7
54	Von Chlorophyll abstammende gelbe Phyllobiline höherer Pflanzen als umgebungsgesteuerte, chirale Photoschalter. <i>Angewandte Chemie</i> , 2016, 128, 15992-15997.	1.6	4

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55	Innentitelbild: Von Chlorophyll abstammende gelbe Phyllobiline hÄ¶herer Pflanzen als umgebungsgesteuerte, chirale Photoschalter (Angew. Chem. 51/2016). Angewandte Chemie, 2016, 128, 15912-15912.	1.6	0
56	Coenzyme B ₁₂ Repurposed for Photoregulation of Gene Expression. Angewandte Chemie - International Edition, 2016, 55, 5638-5640.	7.2	13
57	Hydrolysis of synthetic polyesters by <i>Clostridium botulinum</i> esterases. Biotechnology and Bioengineering, 2016, 113, 1024-1034.	1.7	65
58	Structural characterization of a Vatairea macrocarpa lectin in complex with a tumor-associated antigen: A new tool for cancer research. International Journal of Biochemistry and Cell Biology, 2016, 72, 27-39.	1.2	12
59	Characterization of a poly(butylene adipate-co-terephthalate)-hydrolyzing lipase from Pelosinus fermentans. Applied Microbiology and Biotechnology, 2016, 100, 1753-1764.	1.7	75
60	An Esterase from Anaerobic <i>Clostridium hathewayi</i> Can Hydrolyze Aliphatic Aromatic Polyesters. Environmental Science & Technology, 2016, 50, 2899-2907.	4.6	39
61	Crystal structure of the Saccharomyces cerevisiae monoglyceride lipase Yju3p. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2016, 1861, 462-470.	1.2	25
62	Improving enzymatic polyurethane hydrolysis by tuning enzyme sorption. Polymer Degradation and Stability, 2016, 132, 69-77.	2.7	85
63	Structure of a Berberine Bridge Enzyme-Like Enzyme with an Active Site Specific to the Plant Family Brassicaceae. PLoS ONE, 2016, 11, e0156892.	1.1	30
64	Regioselective Enzymatic Carboxylation of <i>para</i> -Hydroxy-styrene Derivatives Catalyzed by Phenolic Acid Decarboxylases. Advanced Synthesis and Catalysis, 2015, 357, 1909-1918.	2.1	47
65	Structure-Based Mechanism of Oleate Hydratase from <i>Elizabethkingia meningoseptica</i> . ChemBioChem, 2015, 16, 1730-1734.	1.3	66
66	Structure of human dipeptidyl peptidase 10 (DPPY): a modulator of neuronal Kv4 channels. Scientific Reports, 2015, 5, 8769.	1.6	24
67	The Crystal Structure of D-Threonine Aldolase from Alcaligenes xylosoxidans Provides Insight into a Metal Ion Assisted PLP-Dependent Mechanism. PLoS ONE, 2015, 10, e0124056.	1.1	16
68	High-resolution structure of a new Tn antigen-binding lectin from Vatairea macrocarpa and a comparative analysis of Tn-binding legume lectins. International Journal of Biochemistry and Cell Biology, 2015, 59, 103-110.	1.2	25
69	Complete switch from \pm -2,3- to \pm -2,6-regioselectivity in Pasteurella dagmatis \pm -galactoside sialyltransferase by active-site redesign. Chemical Communications, 2015, 51, 3083-3086.	2.2	41
70	Improving the Properties of Bacterial <i>R</i> -Selective Hydroxynitrile Lyases for Industrial Applications. ChemCatChem, 2015, 7, 325-332.	1.8	27
71	Structural and biochemical properties of LuxF from Photobacterium leiognathi. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2015, 1854, 1466-1475.	1.1	13
72	Anthranoyl-CoA monooxygenase/reductase from Azoarcus evansii possesses both FMN and FAD in two distinct and independent active sites. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2015, 1854, 890-896.	1.1	4

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73	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, 18770-18781.	1.6	83
74	Converting Aspartase into a α -Amino Acid Lyase by Cluster Screening. <i>ChemCatChem</i> , 2014, 6, 965-968.	1.8	16
75	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.	2.2	60
76	Unique Crystal Structure of a Novel Surfactant Protein from the Foam Nest of the Frog <i>Leptodactylus vastus</i> . <i>ChemBioChem</i> , 2014, 15, 393-398.	1.3	14
77	Crystal Structure of an (R)-Selective α -Transaminase from <i>Aspergillus terreus</i> . <i>PLoS ONE</i> , 2014, 9, e87350.	1.1	71
78	Disruption of the methyltransferase-like 23 gene METTL23 causes mild autosomal recessive intellectual disability. <i>Human Molecular Genetics</i> , 2014, 23, 4015-4023.	1.4	32
79	Identification of promiscuous ene-reductase activity by mining structural databases using active site constellations. <i>Nature Communications</i> , 2014, 5, 4150.	5.8	67
80	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.	1.7	49
81	Thermostability improvement of endoglucanase Cel7B from <i>Hypocrea pseudokoningii</i> . <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2014, 103, 16-23.	1.8	10
82	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, 2298-2305.	1.1	1
83	Two promising biocatalytic tools: regioselective carboxylation of aromatics and asymmetric hydration of alkenes. <i>New Biotechnology</i> , 2014, 31, S1.	2.4	0
84	COFACTOR SPECIFICITY ENGINEERING OF STREPTOCOCCUS MUTANS NADH OXIDASE 2 FOR NAD(P) + REGENERATION IN BIOCATALYTIC OXIDATIONS. <i>Computational and Structural Biotechnology Journal</i> , 2014, 9, e201402005.	1.9	46
85	Structural Studies of an Anti-Inflammatory Lectin from <i>Canavalia boliviana</i> Seeds in Complex with Dimannosides. <i>PLoS ONE</i> , 2014, 9, e97015.	1.1	22
86	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, 807-815.	1.2	28
87	Biochemical and structural characterization of a novel bacterial manganese-dependent hydroxynitrile lyase. <i>FEBS Journal</i> , 2013, 280, 5815-5828.	2.2	38
88	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, 7007-7012.	1.7	23
89	Asymmetric Enzymatic Hydration of Hydroxystyrene Derivatives. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 2293-2297.	7.2	71
90	Access to Organometallic Arylcobaltcorrins through Radical Synthesis: α -Ethylphenylcobalamin, a Potential Antivitamin B ₁₂ . <i>Angewandte Chemie - International Edition</i> , 2013, 52, 2606-2610.	7.2	59

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91	Fusion of Binding Domains to <i>Thermobifida cellulolytica</i> Cutinase to Tune Sorption Characteristics and Enhancing PET Hydrolysis. <i>Biomacromolecules</i> , 2013, 14, 1769-1776.	2.6	137
92	Conformational Plasticity and Ligand Binding of Bacterial Monoacylglycerol Lipase. <i>Journal of Biological Chemistry</i> , 2013, 288, 31093-31104.	1.6	44
93	Enzymatic Aerobic Alkene Cleavage Catalyzed by a Mn ³⁺ -Dependent Proteinase A Homologue. <i>ChemBioChem</i> , 2013, 14, 2427-2430.	1.3	18
94	Surface engineering of a cutinase from <i>Thermobifida cellulolytica</i> for improved polyester hydrolysis. <i>Biotechnology and Bioengineering</i> , 2013, 110, 2581-2590.	1.7	118
95	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, 2018-2028.	1.6	50
96	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, 836-845.	1.3	10
97	Stereocontrol Strategies in the Asymmetric Bioreduction of Alkenes. <i>Synlett</i> , 2012, 23, 1857-1864.	1.0	23
98	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, 6525-6530.	3.3	60
99	Vascular Bioactivation of Nitroglycerin by Aldehyde Dehydrogenase-2. <i>Journal of Biological Chemistry</i> , 2012, 287, 38124-38134.	1.6	33
100	A New Esterase from <i>Thermobifida halotolerans</i> Hydrolyses Polyethylene Terephthalate (PET) and Polylactic Acid (PLA). <i>Polymers</i> , 2012, 4, 617-629.	2.0	146
101	Structural and Functional Characterization of NikO, an Enolpyruvyl Transferase Essential in Nikkomycin Biosynthesis. <i>Journal of Biological Chemistry</i> , 2012, 287, 31427-31436.	1.6	14
102	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, 5533-5543.	1.2	42
103	Catalytic and Structural Role of a Conserved Active Site Histidine in Berberine Bridge Enzyme. <i>Biochemistry</i> , 2012, 51, 6139-6147.	1.2	14
104	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, 1012-1021.	1.2	40
105	Crystal structure of a pro-inflammatory lectin from the seeds of <i>Dioclea wilsonii</i> Standl. <i>Biochimie</i> , 2012, 94, 525-532.	1.3	18
106	Inverting the Regioselectivity of the Berberine Bridge Enzyme by Employing Customized Fluorine-Containing Substrates. <i>Chemistry - A European Journal</i> , 2012, 18, 13173-13179.	1.7	29
107	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.	1.1	23
108	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, 214-217.	0.7	2

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109	Tailoring a Stabilized Variant of Hydroxynitrile Lyase from <i>Arabidopsis thaliana</i> . <i>ChemBioChem</i> , 2012, 13, 797-802.	1.3	20
110	Hydroxynitrile Lyases with β -Hydrolase Fold: Two Enzymes with Almost Identical 3D Structures but Opposite Enantioselectivities and Different Reaction Mechanisms. <i>ChemBioChem</i> , 2012, 13, 1932-1939.	1.3	25
111	Crystallization and preliminary X-ray diffraction of the surfactant proteinLv-ranaspumin from the frog <i>Leptodactylus vastus</i> . <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2012, 68, 321-323.	0.7	2
112	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, 451-454.	0.7	3
113	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.	0.7	1
114	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.	2.2	298
115	A Blue Corrinoid from Partial Degradation of Vitamin B ₁₂ in Aqueous Bicarbonate: Spectra, Structure, and Interaction with Proteins of B ₁₂ Transport. <i>Biochemistry</i> , 2011, 50, 8090-8101.	1.2	19
116	Vitamin B12-derivatives as enzyme cofactors and ligands of proteins and nucleic acids. <i>Chemical Society Reviews</i> , 2011, 40, 4346.	18.7	226
117	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, 4122-4135.	2.2	19
118	Stereopreferences of Old Yellow Enzymes: Structure Correlations and Sequence Patterns in Enoate Reductases. <i>ChemCatChem</i> , 2011, 3, 1562-1566.	1.8	32
119	Old Yellow Enzyme-Catalyzed Dehydrogenation of Saturated Ketones. <i>Advanced Synthesis and Catalysis</i> , 2011, 353, 268-274.	2.1	54
120	Biocatalytic Enantioselective Oxidative C-C Coupling by Aerobic C-H Activation. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 1068-1071.	7.2	72
121	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, 1743-1752.	1.7	15
122	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.	2.1	48
123	Isovitamin B ₁₂ : A Vitamin B ₁₂ Derivative That Flips Its Tail. <i>Chemistry - A European Journal</i> , 2010, 16, 10984-10988.	1.7	7
124	Biocatalytic Access to α -Dialkyl- α -Amino Acids by a Mechanism-Based Approach. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 121-124.	7.2	66
125	Directed evolution of <i>Alcaligenes faecalis</i> nitrilase. <i>Enzyme and Microbial Technology</i> , 2010, 47, 140-146.	1.6	38
126	Molecular recognition determinants for type IV secretion of diverse families of conjugative relaxases. <i>Molecular Microbiology</i> , 2010, 78, 1539-1555.	1.2	57

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127	Structural insights into substrate specificity and solvent tolerance in alcohol dehydrogenase ADH- β ™ from <i>Rhodococcus ruber</i> DSM 44541. <i>Chemical Communications</i> , 2010, 46, 6314.	2.2	65
128	Bioreduction of β -methylcinnamaldehyde derivatives: chemo-enzymatic asymmetric synthesis of Linalol and Helional. <i>Dalton Transactions</i> , 2010, 39, 8472.	1.6	60
129	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.	1.6	43
130	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, 19878-19886.	1.6	32
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