

Jing Zhao

List of Publications by Year in descending order

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157
papers

4,981
citations

81900

39
h-index

128289

60
g-index

165
all docs

165
docs citations

165
times ranked

3861
citing authors

#	ARTICLE	IF	CITATIONS
1	Progress toward a bicarbonate-based microalgae production system. <i>Trends in Biotechnology</i> , 2022, 40, 180-193.	9.3	37
2	Phytase blends for enhanced phosphorous mobilization of deoiled seeds. <i>Enzyme and Microbial Technology</i> , 2022, 153, 109953.	3.2	4
3	Recombination of Compatible Substitutions by 2GenReP and InSiReP. <i>Methods in Molecular Biology</i> , 2022, 2397, 71-81.	0.9	6
4	A plea for the integration of Green Toxicology in sustainable bioeconomy strategies – Biosurfactants and microgel-based pesticide release systems as examples. <i>Journal of Hazardous Materials</i> , 2022, 426, 127800.	12.4	5
5	Critical assessment of structure-based approaches to improve protein resistance in aqueous ionic liquids by enzyme-wide saturation mutagenesis. <i>Computational and Structural Biotechnology Journal</i> , 2022, 20, 399-409.	4.1	7
6	Preparative Production of Functionalized (N- and O-Heterocyclic) Polycyclic Aromatic Hydrocarbons by Human Cytochrome P450 3A4 in a Bioreactor. <i>Biomolecules</i> , 2022, 12, 153.	4.0	1
7	Polar Substitutions on the Surface of a Lipase Substantially Improve Tolerance in Organic Solvents. <i>ChemSusChem</i> , 2022, 15, .	6.8	17
8	Structure and Cooperativity in Substrate-Enzyme Interactions: Perspectives on Enzyme Engineering and Inhibitor Design. <i>ACS Chemical Biology</i> , 2022, 17, 266-280.	3.4	8
9	In Silico and Experimental ADAM17 Kinetic Modeling as Basis for Future Screening System for Modulators. <i>International Journal of Molecular Sciences</i> , 2022, 23, 1368.	4.1	4
10	Optimized Hemolysin Type 1 Secretion System in <i>Escherichia coli</i> by Directed Evolution of the Hly Enhancer Fragment and Including a Terminator Region. <i>ChemBioChem</i> , 2022, , .	2.6	3
11	How Does Surface Charge Engineering of <i>Bacillus subtilis</i> Lipase A Improve Ionic Liquid Resistance? Lessons Learned from Molecular Dynamics Simulations. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 2689-2698.	6.7	15
12	Conditioning of Feed Material Prior to Feeding: Approaches for a Sustainable Phosphorus Utilization. <i>Sustainability</i> , 2022, 14, 3998.	3.2	5
13	Evolution of <i>E. coli</i> Phytase Toward Improved Hydrolysis of Inositol Tetraphosphate. <i>Frontiers in Chemical Engineering</i> , 2022, 4, .	2.7	5
14	High-Yield Synthesis of Enantiopure 1,2-Amino Alcohols from <i>l</i> -Phenylalanine via Linear and Divergent Enzymatic Cascades. <i>Organic Process Research and Development</i> , 2022, 26, 2085-2095.	2.7	15
15	BioAdhere: tailor-made bioadhesives for epiretinal visual prostheses. <i>Biomaterials Science</i> , 2022, 10, 3282-3295.	5.4	2
16	Rational Design Yields Molecular Insights on Leaf-Binding of Anchor Peptides. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 28412-28426.	8.0	4
17	Directed Evolution of a Cp*Rh ^{III} -Linked Biohybrid Catalyst Based on a Screening Platform with Affinity Purification. <i>ChemBioChem</i> , 2021, 22, 679-685.	2.6	10
18	CompassR Yields Highly Organic-Solvent-Tolerant Enzymes through Recombination of Compatible Substitutions. <i>Chemistry - A European Journal</i> , 2021, 27, 2789-2797.	3.3	28

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19	A Photoclick-Based High-Throughput Screening for the Directed Evolution of Decarboxylase OleT. Chemistry - A European Journal, 2021, 27, 954-958.	3.3	7
20	Chemogenetic engineering of nitrobindin toward an artificial epoxygenase. Catalysis Science and Technology, 2021, 11, 4491-4499.	4.1	5
21	CompassR-guided recombination unlocks design principles to stabilize lipases in ILs with minimal experimental efforts. Green Chemistry, 2021, 23, 3474-3486.	9.0	26
22	Anchor peptides promote degradation of mixed plastics for recycling. Methods in Enzymology, 2021, 648, 271-292.	1.0	10
23	Construction of a whole-cell biohybrid catalyst using a Cp*Rh(III)-dithiophosphate complex as a precursor of a metal cofactor. Journal of Inorganic Biochemistry, 2021, 216, 111352.	3.5	8
24	Less Unfavorable Salt Bridges on the Enzyme Surface Result in More Organic Cosolvent Resistance. Angewandte Chemie - International Edition, 2021, 60, 11448-11456.	13.8	45
25	Chemogenetic Evolution of a Peroxidase-like Artificial Metalloenzyme. ACS Catalysis, 2021, 11, 5079-5087.	11.2	21
26	PyPEF-An Integrated Framework for Data-Driven Protein Engineering. Journal of Chemical Information and Modeling, 2021, 61, 3463-3476.	5.4	20
27	MIXed plastics biodegradation and UPcycling using microbial communities: EU Horizon 2020 project MIX-UP started January 2020. Environmental Sciences Europe, 2021, 33, 99.	5.5	33
28	Generation of phytase chimeras with low sequence identities and improved thermal stability. Journal of Biotechnology, 2021, 339, 14-21.	3.8	4
29	Expression and Refolding of the Plant Chitinase From Drosera capensis for Applications as a Sustainable and Integrated Pest Management. Frontiers in Bioengineering and Biotechnology, 2021, 9, 728501.	4.1	3
30	Enzyme mimetic microgel coating for endogenous nitric oxide mediated inhibition of platelet activation. Journal of Colloid and Interface Science, 2021, 601, 604-616.	9.4	14
31	Can constraint network analysis guide the identification phase of KnowVolution? A case study on improved thermostability of an endo- β -glucanase. Computational and Structural Biotechnology Journal, 2021, 19, 743-751.	4.1	6
32	The molecular basis of spectral tuning in blue- and red-shifted flavin-binding fluorescent proteins. Journal of Biological Chemistry, 2021, 296, 100662.	3.4	17
33	Aqueous ionic liquids redistribute local enzyme stability via long-range perturbation pathways. Computational and Structural Biotechnology Journal, 2021, 19, 4248-4264.	4.1	14
34	Protein Nanopore Membranes Prepared by a Simple Langmuir-Schaefer Approach. Small, 2021, 17, e2102975.	10.0	3
35	Engineering and emerging applications of artificial metalloenzymes with whole cells. Nature Catalysis, 2021, 4, 814-827.	34.4	38
36	Whole-cell screening of oxidative enzymes using genetically encoded sensors. Chemical Science, 2021, 12, 14766-14772.	7.4	6

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37	Matterâ€‹i>tag</i>: A universal immobilization platform for enzymes on polymers, metals, and siliconâ€‹based materials. <i>Biotechnology and Bioengineering</i> , 2020, 117, 49-61.	3.3	32
38	Computerâ€‹Assisted Recombination (CompassR) Teaches us How to Recombine Beneficial Substitutions from Directed Evolution Campaigns. <i>Chemistry - A European Journal</i> , 2020, 26, 643-649.	3.3	57
39	Systematically Scrutinizing the Impact of Substitution Sites on Thermostability and Detergent Tolerance for <i>Bacillus subtilis</i> Lipase A. <i>Journal of Chemical Information and Modeling</i> , 2020, 60, 1568-1584.	5.4	21
40	Enhancing Robustness of Sortase A by Loop Engineering and Backbone Cyclization. <i>Chemistry - A European Journal</i> , 2020, 26, 13537-13537.	3.3	3
41	Designed <i>Streptococcus pyogenes</i> Sortase A Accepts Branched Amines as Nucleophiles in Sortagging. <i>Bioconjugate Chemistry</i> , 2020, 31, 2476-2481.	3.6	13
42	MicroGelzymes: pH-Independent Immobilization of Cytochrome P450 BM3 in Microgels. <i>Biomacromolecules</i> , 2020, 21, 5128-5138.	5.4	25
43	Enzyme Hydration Determines Resistance in Organic Cosolvents. <i>ACS Catalysis</i> , 2020, 10, 14847-14856.	11.2	53
44	KnowVolution of a GH5 Cellulase from <i>Penicillium verrucosum</i> to Improve Thermal Stability for Biomass Degradation. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 12388-12399.	6.7	29
45	FhuAâ€‹Grubbsâ€‹Hoveyda Biohybrid Catalyst Embedded in a Polymer Film Enables Catalysis in Neat Substrates. <i>ACS Catalysis</i> , 2020, 10, 10946-10953.	11.2	5
46	Incorporation of a Cp*Rh(III)-dithiophosphate Cofactor with Latent Activity into a Protein Scaffold Generates a Biohybrid Catalyst Promoting C(sp²)-â€‹H Bond Functionalization. <i>Inorganic Chemistry</i> , 2020, 59, 14457-14463.	4.0	12
47	Biocatalytic microgels (1/4-Gel<i>zymes</i>): synthesis, concepts, and emerging applications. <i>Green Chemistry</i> , 2020, 22, 8183-8209.	9.0	23
48	Machine learning-assisted enzyme engineering. <i>Methods in Enzymology</i> , 2020, 643, 281-315.	1.0	59
49	A colourimetric high-throughput screening system for directed evolution of prodigiosin ligase PigC. <i>Chemical Communications</i> , 2020, 56, 8631-8634.	4.1	11
50	Effects of Proline Substitutions on the Thermostable LOV Domain from <i>Chloroflexus aggregans</i> . <i>Crystals</i> , 2020, 10, 256.	2.2	14
51	Engineering Robust Cellulases for Tailored Lignocellulosic Degradation Cocktails. <i>International Journal of Molecular Sciences</i> , 2020, 21, 1589.	4.1	68
52	Enhancing Robustness of Sortase A by Loop Engineering and Backbone Cyclization. <i>Chemistry - A European Journal</i> , 2020, 26, 13568-13572.	3.3	11
53	Phytase-Based Phosphorus Recovery Process for 20 Distinct Press Cakes. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 3913-3921.	6.7	24
54	Engineering of Laccase CueO for Improved Electron Transfer in Bioelectrocatalysis by Semiâ€‹Rational Design. <i>Chemistry - A European Journal</i> , 2020, 26, 4974-4979.	3.3	11

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55	Engineering of Laccase CueO for Improved Electron Transfer in Bioelectrocatalysis by Semi-Rational Design. <i>Chemistry - A European Journal</i> , 2020, 26, 4884-4884.	3.3	0
56	Loop engineering of aryl sulfotransferase B for improving catalytic performance in regioselective sulfation. <i>Catalysis Science and Technology</i> , 2020, 10, 2369-2377.	4.1	6
57	Preparative-Scale Production of Testosterone Metabolites by Human Liver Cytochrome P450 Enzyme 3A4. <i>Advanced Synthesis and Catalysis</i> , 2020, 362, 2725-2738.	4.3	17
58	Ternary Complex Formation and Photoactivation of a Photoenzyme Results in Altered Protein Dynamics. <i>Journal of Physical Chemistry B</i> , 2019, 123, 7372-7384.	2.6	3
59	Directed Evolution of P450 BM3 towards Functionalization of Aromatic O-Heterocycles. <i>International Journal of Molecular Sciences</i> , 2019, 20, 3353.	4.1	14
60	In Situ Monitoring of Membrane Protein Insertion into Block Copolymer Vesicle Membranes and Their Spreading via Potential-Assisted Approach. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 29276-29289.	8.0	13
61	One-Pot Two-Step Chemoenzymatic Cascade for the Synthesis of a Bis-benzofuran Derivative. <i>European Journal of Organic Chemistry</i> , 2019, 2019, 6341-6346.	2.4	17
62	Engineered phytases for emerging biotechnological applications beyond animal feeding. <i>Applied Microbiology and Biotechnology</i> , 2019, 103, 6435-6448.	3.6	24
63	Rapid and Robust Coating Method to Render Polydimethylsiloxane Surfaces Cell-Adhesive. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 41091-41099.	8.0	26
64	A 96-multiplex capillary electrophoresis screening platform for product based evolution of P450 BM3. <i>Scientific Reports</i> , 2019, 9, 15479.	3.3	6
65	Directed Evolution of a Bacterial Laccase (CueO) for Enzymatic Biofuel Cells. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 4562-4565.	13.8	57
66	Anchor Peptide-Mediated Surface Immobilization of a Grubbs-Hoveyda-Type Catalyst for Ring-Opening Metathesis Polymerization. <i>Bioconjugate Chemistry</i> , 2019, 30, 714-720.	3.6	16
67	How To Engineer Ionic Liquids Resistant Enzymes: Insights from Combined Molecular Dynamics and Directed Evolution Study. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 11293-11302.	6.7	38
68	A thermostable flavin-based fluorescent protein from <i>Chloroflexus aggregans</i> : a framework for ultra-high resolution structural studies. <i>Photochemical and Photobiological Sciences</i> , 2019, 18, 1793-1805.	2.9	30
69	Directed aryl sulfotransferase evolution toward improved sulfation stoichiometry on the example of catechols. <i>Applied Microbiology and Biotechnology</i> , 2019, 103, 3761-3771.	3.6	7
70	Disulfide Bond Engineering of an Endoglucanase from <i>Penicillium verruculosum</i> to Improve Its Thermostability. <i>International Journal of Molecular Sciences</i> , 2019, 20, 1602.	4.1	45
71	Chemoenzymatic cascade for stilbene production from cinnamic acid catalyzed by ferulic acid decarboxylase and an artificial metatase. <i>Catalysis Science and Technology</i> , 2019, 9, 5572-5576.	4.1	26
72	Stimuli-Responsive Poly(N-Vinyl lactams) with Glycidyl Side Groups: Synthesis, Characterization, and Conjugation with Enzymes. <i>Biomacromolecules</i> , 2019, 20, 992-1006.	5.4	25

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73	Directed Evolution Empowered Redesign of Natural Proteins for the Sustainable Production of Chemicals and Pharmaceuticals. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 36-40.	13.8	169
74	High Throughput Screening Method for Engineering P450 Towards Terminal Hydroxylation of Fatty Acids. <i>Journal of Biobased Materials and Bioenergy</i> , 2019, 13, 79-85.	0.3	1
75	Cavity Size Engineering of a β -Barrel Protein Generates Efficient Biohybrid Catalysts for Olefin Metathesis. <i>ACS Catalysis</i> , 2018, 8, 3358-3364.	11.2	39
76	A Whole Cell <i>E. coli</i> Display Platform for Artificial Metalloenzymes: Poly(phenylacetylene) Production with a Rhodium-Nitrobindin Metalloprotein. <i>ACS Catalysis</i> , 2018, 8, 2611-2614.	11.2	71
77	Sortase-Mediated High-Throughput Screening Platform for Directed Enzyme Evolution. <i>ACS Combinatorial Science</i> , 2018, 20, 203-211.	3.8	27
78	A robust protocol for directed aryl sulfotransferase evolution toward the carbohydrate building block GlcNAc. <i>Biotechnology and Bioengineering</i> , 2018, 115, 1106-1115.	3.3	12
79	Selecting of a cytochrome P450cam SeSaM library with 3-chloroindole and endosulfan Identification of mutants that dehalogenate 3-chloroindole. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2018, 1866, 68-79.	2.3	0
80	Olefin metathesis catalysts embedded in β -barrel proteins: creating artificial metalloproteins for olefin metathesis. <i>Beilstein Journal of Organic Chemistry</i> , 2018, 14, 2861-2871.	2.2	16
81	Structural Insight into Enantioselective Inversion of an Alcohol Dehydrogenase Reveals a Polar Gate in Stereorecognition of Diaryl Ketones. <i>Journal of the American Chemical Society</i> , 2018, 140, 12645-12654.	13.7	87
82	Enzyme-Polyelectrolyte Complexes Boost the Catalytic Performance of Enzymes. <i>ACS Catalysis</i> , 2018, 8, 10876-10887.	11.2	30
83	KnowVolution Campaign of an Aryl Sulfotransferase Increases Activity toward Cellobiose. <i>Chemistry - A European Journal</i> , 2018, 24, 17117-17124.	3.3	18
84	A hydroquinone-specific screening system for directed P450 evolution. <i>Applied Microbiology and Biotechnology</i> , 2018, 102, 9657-9667.	3.6	16
85	KnowVolution of the Polymer-Binding Peptide LCI for Improved Polypropylene Binding. <i>Polymers</i> , 2018, 10, 423.	4.5	47
86	Enzyme-Compatible Dynamic Nanoreactors from Electrostatically Bridged Like-Charged Surfactants and Polyelectrolytes. <i>Angewandte Chemie</i> , 2018, 130, 9546-9551.	2.0	1
87	Comparison of <i>Candida antarctica</i> Lipase B Variants for Conversion of ϵ -Caprolactone in Aqueous Medium Part 2. <i>Polymers</i> , 2018, 10, 524.	4.5	10
88	Theoretical Model of the Protochlorophyllide Oxidoreductase from a Hierarchy of Protocols. <i>Journal of Physical Chemistry B</i> , 2018, 122, 7668-7681.	2.6	8
89	Improved microscale cultivation of <i>Pichia pastoris</i> for clonal screening. <i>Fungal Biology and Biotechnology</i> , 2018, 5, 8.	5.1	12
90	Directed evolution of an acid <i>Yersinia mollaretii</i> phytase for broadened activity at neutral pH. <i>Applied Microbiology and Biotechnology</i> , 2018, 102, 9607-9620.	3.6	8

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91	Directed OmniChange Evolution Converts P450 BM3 into an Alkyltrimethylammonium Hydroxylase. Chemistry - A European Journal, 2018, 24, 16865-16872.	3.3	15
92	Enzyme-compatible Dynamic Nanoreactors from Electrostatically Bridged Like-charged Surfactants and Polyelectrolytes. Angewandte Chemie - International Edition, 2018, 57, 9402-9407.	13.8	18
93	Amino acid substitutions in random mutagenesis libraries: lessons from analyzing 3000 mutations. Applied Microbiology and Biotechnology, 2017, 101, 3177-3187.	3.6	8
94	Recent Advances in Directed Phytase Evolution and Rational Phytase Engineering. , 2017, , 145-172.		19
95	Cellulolytic RoboLector – towards an automated high-throughput screening platform for recombinant cellulase expression. Journal of Biological Engineering, 2017, 11, 1.	4.7	71
96	An Enzymatic Route to Î-tocopherol Synthons: Aromatic Hydroxylation of Pseudocumene and Mesitylene with P450 BM3. Chemistry - A European Journal, 2017, 23, 17981-17991.	3.3	28
97	Engineering Enhanced Pore Sizes Using FhuA 1-160 from <i>E. coli</i> Outer Membrane as Template. ACS Sensors, 2017, 2, 1619-1626.	7.8	29
98	Recombinant RNA Polymerase from <i>Geobacillus</i> sp. GHH01 as tool for rapid generation of metagenomic RNAs using in vitro technologies. Biotechnology and Bioengineering, 2017, 114, 2739-2752.	3.3	7
99	2-Methyl-2,4-pentandiol (MPD) boosts as detergent-substitute the performance of Å-barrel hybrid catalyst for phenylacetylene polymerization. Beilstein Journal of Organic Chemistry, 2017, 13, 1498-1506.	2.2	12
100	Protein consensus-based surface engineering (ProCoS): a computer-assisted method for directed protein evolution. BioTechniques, 2016, 61, 305-314.	1.8	19
101	Artificial Diels-Alderase based on the transmembrane protein FhuA. Beilstein Journal of Organic Chemistry, 2016, 12, 1314-1321.	2.2	33
102	CaLB Catalyzed Conversion of Î-caprolactone in Aqueous Medium. Part 1: Immobilization of CaLB to Microgels. Polymers, 2016, 8, 372.	4.5	20
103	Grafting PNIPAAm from Î-barrel shaped transmembrane nanopores. Biomaterials, 2016, 107, 115-123.	11.4	27
104	A whole cell biocatalyst for double oxidation of cyclooctane. Journal of Industrial Microbiology and Biotechnology, 2016, 43, 1641-1646.	3.0	16
105	Unraveling Binding Effects of Cobalt(II) Sepulchrate with the Monooxygenase P450 BM-3 Heme Domain Using Molecular Dynamics Simulations. Journal of Chemical Theory and Computation, 2016, 12, 353-363.	5.3	6
106	Substrate thiophosphorylation by Arabidopsis mitogen-activated protein kinases. BMC Plant Biology, 2016, 16, 48.	3.6	14
107	Iterative key-residues interrogation of a phytase with thermostability increasing substitutions identified in directed evolution. Applied Microbiology and Biotechnology, 2016, 100, 227-242.	3.6	28
108	Investigation of Structural Determinants for the Substrate Specificity in the Zinc-dependent Alcohol Dehydrogenase CPCR2 from <i>Candida parapsilosis</i> . ChemBioChem, 2015, 16, 1512-1519.	2.6	13

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109	A first continuous 4-aminoantipyrine (4-AAP)-based screening system for directed esterase evolution. <i>Applied Microbiology and Biotechnology</i> , 2015, 99, 5237-5246.	3.6	18
110	A Competitive Flow Cytometry Screening System for Directed Evolution of Therapeutic Enzyme. <i>ACS Synthetic Biology</i> , 2015, 4, 768-775.	3.8	31
111	Water-Soluble Reactive Copolymers Based on Cyclic α -Vinylamides with Succinimide Side Groups for Bioconjugation with Proteins. <i>Macromolecules</i> , 2015, 48, 4256-4268.	4.8	31
112	Ionic liquid activated <i>Bacillus subtilis</i> lipase A variants through cooperative surface substitutions. <i>Biotechnology and Bioengineering</i> , 2015, 112, 1997-2004.	3.3	22
113	QM/MM Calculations Revealing the Resting and Catalytic States in Zinc-Dependent Medium-Chain Dehydrogenases/Reductases. <i>ACS Catalysis</i> , 2015, 5, 3207-3215.	11.2	39
114	Towards Understanding Directed Evolution: More than Half of All Amino Acid Positions Contribute to Ionic Liquid Resistance of <i>Bacillus subtilis</i> Lipase A. <i>ChemBioChem</i> , 2015, 16, 937-945.	2.6	45
115	Directed evolution 2.0: improving and deciphering enzyme properties. <i>Chemical Communications</i> , 2015, 51, 9760-9772.	4.1	122
116	A Highly Active Biohybrid Catalyst for Olefin Metathesis in Water: Impact of a Hydrophobic Cavity in a β -Barrel Protein. <i>ACS Catalysis</i> , 2015, 5, 7519-7522.	11.2	68
117	Activity prediction of substrates in NADH-dependent carbonyl reductase by docking requires catalytic constraints and charge parameterization of catalytic zinc environment. <i>Journal of Computer-Aided Molecular Design</i> , 2015, 29, 1057-1069.	2.9	17
118	Directed arginine deiminase evolution for efficient inhibition of arginine-auxotrophic melanomas. <i>Applied Microbiology and Biotechnology</i> , 2015, 99, 1237-1247.	3.6	29
119	Lessons from diversity of directed evolution experiments by an analysis of 3,000 mutations. <i>Biotechnology and Bioengineering</i> , 2014, 111, 2380-2389.	3.3	40
120	A High-Throughput Screening Method to Reengineer DNA Polymerases for Random Mutagenesis. <i>Molecular Biotechnology</i> , 2014, 56, 274-283.	2.4	9
121	Mediated electron transfer with monooxygenases—Insight in interactions between reduced mediators and the co-substrate oxygen. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2014, 108, 51-58.	1.8	23
122	Ionic liquid and deep eutectic solvent-activated CelA2 variants generated by directed evolution. <i>Applied Microbiology and Biotechnology</i> , 2014, 98, 5775-5785.	3.6	47
123	Multi-site saturation by OmniChange yields a pH- and thermally improved phytase. <i>Journal of Biotechnology</i> , 2014, 170, 68-72.	3.8	43
124	Whole-cell double oxidation of n-heptane. <i>Journal of Biotechnology</i> , 2014, 191, 196-204.	3.8	26
125	P-Link: A method for generating multicomponent cytochrome P450 fusions with variable linker length. <i>BioTechniques</i> , 2014, 57, 13-20.	1.8	20
126	Regioselective α -Hydroxylation of Monosubstituted Benzenes by P450 BM3. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 8459-8462.	13.8	77

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127	Surface charge engineering of a <i>Bacillus gibsonii</i> subtilisin protease. <i>Applied Microbiology and Biotechnology</i> , 2013, 97, 6793-6802.	3.6	39
128	Increasing activity and thermal resistance of <i>Bacillus gibsonii</i> alkaline protease (BgAP) by directed evolution. <i>Biotechnology and Bioengineering</i> , 2013, 110, 711-720.	3.3	72
129	Reengineered glucose oxidase for amperometric glucose determination in diabetes analytics. <i>Biosensors and Bioelectronics</i> , 2013, 50, 84-90.	10.1	46
130	Conformational Dynamics of the FMN-Binding Reductase Domain of Monooxygenase P450BM-3. <i>Journal of Chemical Theory and Computation</i> , 2013, 9, 96-105.	5.3	12
131	Directed laccase evolution for improved ionic liquid resistance. <i>Green Chemistry</i> , 2013, 15, 1348.	9.0	64
132	In Vitro Double Oxidation of n-Heptane with Direct Cofactor Regeneration. <i>Advanced Synthesis and Catalysis</i> , 2013, 355, 1787-1798.	4.3	38
133	To get what we aim for—Progress in diversity generation methods. <i>FEBS Journal</i> , 2013, 280, 2961-2978.	4.7	59
134	A roadmap to directed enzyme evolution and screening systems for biotechnological applications. <i>Biological Research</i> , 2013, 46, 395-405.	3.4	57
135	Exploring the mineralization of hydrophobins at a liquid interface. <i>Soft Matter</i> , 2012, 8, 11343.	2.7	12
136	COMPUTER-AIDED PROTEIN DIRECTED EVOLUTION: A REVIEW OF WEB SERVERS, DATABASES AND OTHER COMPUTATIONAL TOOLS FOR PROTEIN ENGINEERING. <i>Computational and Structural Biotechnology Journal</i> , 2012, 2, e201209008.	4.1	52
137	MAP ^{2.0} 3D: A Sequence/Structure Based Server for Protein Engineering. <i>ACS Synthetic Biology</i> , 2012, 1, 139-150.	3.8	19
138	Reengineering CelA2 cellulase for hydrolysis in aqueous solutions of deep eutectic solvents and concentrated seawater. <i>Green Chemistry</i> , 2012, 14, 2719.	9.0	120
139	Phosphorothioate-based DNA recombination: an enzyme-free method for the combinatorial assembly of multiple DNA fragments. <i>BioTechniques</i> , 2012, 52, 1-6.	1.8	23
140	Directed Evolution of Subtilisin E into a Highly Active and Guanidinium Chloride- and Sodium Dodecylsulfate-Tolerant Protease. <i>ChemBioChem</i> , 2012, 13, 691-699.	2.6	21
141	Directed Evolution of P450 BM3 into a p-Xylene Hydroxylase. <i>ChemCatChem</i> , 2012, 4, 771-773.	3.7	40
142	Directed evolution of a highly active <i>Yersinia mollaretii</i> phytase. <i>Applied Microbiology and Biotechnology</i> , 2012, 95, 405-418.	3.6	64
143	OmniChange: The Sequence Independent Method for Simultaneous Site-Saturation of Five Codons. <i>PLoS ONE</i> , 2011, 6, e26222.	2.5	83
144	Directed Evolution of an Antitumor Drug (Arginine Deiminase PpADI) for Increased Activity at Physiological pH. <i>ChemBioChem</i> , 2010, 11, 691-697.	2.6	35

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145	Conformational dynamics of active site loop in <i>Escherichia coli</i> phytase. <i>Biopolymers</i> , 2010, 93, 994-1002.	2.4	15
146	Phosphorothioate-based ligase-independent gene cloning (PLICing): An enzyme-free and sequence-independent cloning method. <i>Analytical Biochemistry</i> , 2010, 406, 141-146.	2.4	109
147	Advances in generating functional diversity for directed protein evolution. <i>Current Opinion in Chemical Biology</i> , 2009, 13, 19-25.	6.1	156
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