Colin J Jackson

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.

61 151 4,404 37 h-index g-index citations papers 5,606 7.8 179 5.52 avg, IF L-index ext. citations ext. papers

#	Paper	IF	Citations
151	Adventures on the routes of protein evolution - in memoriam Dan Salah Tawfik (1955 - 2021) Journal of Molecular Biology, 2022 , 434, 167462	6.5	2
150	Antiviral cyclic peptides targeting the main protease of SARS-CoV-2 Chemical Science, 2022, 13, 3826-3	88346	2
149	Computational design and experimental characterisation of a stable human heparanase variant <i>RSC Chemical Biology</i> , 2022 , 3, 341-349	3	O
148	Evo-velocity: Protein language modeling accelerates the study of evolution <i>Cell Systems</i> , 2022 , 13, 271	-273	О
147	Improved production of the non-native cofactor F in Escherichia coli. <i>Scientific Reports</i> , 2021 , 11, 21774	4.9	O
146	A Rationally and Computationally Designed Fluorescent Biosensor for d-Serine. <i>ACS Sensors</i> , 2021 , 6, 4193-4205	9.2	1
145	Through-Space Scalar F-F Couplings between Fluorinated Noncanonical Amino Acids for the Detection of Specific Contacts in Proteins. <i>Journal of the American Chemical Society</i> , 2021 , 143, 19587-1	9 ¹ 59 8	3
144	Substrate Dynamics Contribute to Enzymatic Specificity in Human and Bacterial Methionine Adenosyltransferases <i>Jacs Au</i> , 2021 , 1, 2349-2360		О
143	Immunizations with diverse sarbecovirus receptor-binding domains elicit SARS-CoV-2 neutralizing antibodies against a conserved site of vulnerability. <i>Immunity</i> , 2021 ,	32.3	8
142	Structural and functional characterization of a putative de novo gene in Drosophila. <i>Nature Communications</i> , 2021 , 12, 1667	17.4	10
141	A Comprehensive Phylogenetic Analysis of the Serpin Superfamily. <i>Molecular Biology and Evolution</i> , 2021 , 38, 2915-2929	8.3	8
140	Avid binding by B cells to the Plasmodium circumsporozoite protein repeat suppresses responses to protective subdominant epitopes. <i>Cell Reports</i> , 2021 , 35, 108996	10.6	4
139	High avidity drives the interaction between the streptococcal C1 phage endolysin, PlyC, with the cell surface carbohydrates of Group A Streptococcus. <i>Molecular Microbiology</i> , 2021 , 116, 397-415	4.1	2
138	Structures of a non-ribosomal peptide synthetase condensation domain suggest the basis of substrate selectivity. <i>Nature Communications</i> , 2021 , 12, 2511	17.4	9
137	Potent Cyclic Peptide Inhibitors of FXIIa Discovered by mRNA Display with Genetic Code Reprogramming. <i>Journal of Medicinal Chemistry</i> , 2021 , 64, 7853-7876	8.3	3
136	Potency boost of a dihydrofolate reductase inhibitor by multienzyme FH-dependent reduction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	1
135	Human SIRT1 Multispecificity Is Modulated by Active-Site Vicinity Substitutions during Natural Evolution. <i>Molecular Biology and Evolution</i> , 2021 , 38, 545-556	8.3	2

(2020-2021)

134	Resonant Dielectric Metagratings for Response Intensified Optical Sensing. <i>Advanced Functional Materials</i> , 2021 , 2103143	15.6	3
133	Ancestral sequence reconstruction for protein engineers. <i>Current Opinion in Structural Biology</i> , 2021 , 69, 131-141	8.1	18
132	Challenges of short substrate analogues as SARS-CoV-2 main protease inhibitors. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2021 , 50, 128333	2.9	4
131	Mutational and biophysical robustness in a prestabilized monobody. <i>Journal of Biological Chemistry</i> , 2021 , 296, 100447	5.4	1
130	The evolution and engineering of enzyme activity through tuning conformational landscapes. <i>Protein Engineering, Design and Selection</i> , 2021 , 34,	1.9	4
129	Cellular and Structural Basis of Synthesis of the Unique Intermediate Dehydro-F-0 in Mycobacteria. <i>MSystems</i> , 2020 , 5,	7.6	4
128	Bacterial catabolism of s-triazine herbicides: biochemistry, evolution and application. <i>Advances in Microbial Physiology</i> , 2020 , 76, 129-186	4.4	6
127	Consensus Mutagenesis and Ancestral Reconstruction Provide Insight into the Substrate Specificity and Evolution of the Front-End B -Desaturase Family. <i>Biochemistry</i> , 2020 , 59, 1398-1409	3.2	8
126	Predicting nitroimidazole antibiotic resistance mutations in Mycobacterium tuberculosis with protein engineering. <i>PLoS Pathogens</i> , 2020 , 16, e1008287	7.6	18
125	Engineering a solid-state metalloprotein hydrogen evolution catalyst. Scientific Reports, 2020, 10, 3774	4.9	3
124	Strategies for Increasing Protein Stability. <i>Methods in Molecular Biology</i> , 2020 , 2073, 163-181	1.4	10
123	Enhancement of metallomacrocycle-based oxygen reduction catalysis through immobilization in a tunable silk-protein scaffold. <i>Journal of Inorganic Biochemistry</i> , 2020 , 204, 110960	4.2	1
122	Total Syntheses of the 3-Pyrrolo[2,3-]quinolone-Containing Alkaloids Marinoquinolines A-F, K, and Aplidiopsamine A Using a Palladium-Catalyzed Ullmann Cross-Coupling/Reductive Cyclization Pathway. <i>Journal of Organic Chemistry</i> , 2020 , 85, 650-663	4.2	10
121	Local Efficacy of Glutamate Uptake Decreases with Synapse Size. <i>Cell Reports</i> , 2020 , 32, 108182	10.6	17
120	Altered conformational sampling along an evolutionary trajectory changes the catalytic activity of an enzyme. <i>Nature Communications</i> , 2020 , 11, 5945	17.4	14
119	LTP Induction Boosts Glutamate Spillover by Driving Withdrawal of Perisynaptic Astroglia. <i>Neuron</i> , 2020 , 108, 919-936.e11	13.9	65
118	Predicting nitroimidazole antibiotic resistance mutations in Mycobacterium tuberculosis with protein engineering 2020 , 16, e1008287		
117	Predicting nitroimidazole antibiotic resistance mutations in Mycobacterium tuberculosis with protein engineering 2020 , 16, e1008287		

Predicting nitroimidazole antibiotic resistance mutations in Mycobacterium tuberculosis with protein engineering **2020**, 16, e1008287

115	Predicting nitroimidazole antibiotic resistance mutations in Mycobacterium tuberculosis with protein engineering 2020 , 16, e1008287		
114	Overcoming insecticide resistance through computational inhibitor design. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 21012-21021	11.5	16
113	nonribosomal peptide synthetase Ebony encodes an atypical condensation domain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 2913-2918	11.5	11
112	Kistamicin biosynthesis reveals the biosynthetic requirements for production of highly crosslinked glycopeptide antibiotics. <i>Nature Communications</i> , 2019 , 10, 2613	17.4	24
111	Protein engineering: the potential of remote mutations. <i>Biochemical Society Transactions</i> , 2019 , 47, 701	- ₹.1 1	34
110	Structural and evolutionary approaches to the design and optimization of fluorescence-based small molecule biosensors. <i>Current Opinion in Structural Biology</i> , 2019 , 57, 31-38	8.1	18
109	A revised biosynthetic pathway for the cofactor F in prokaryotes. <i>Nature Communications</i> , 2019 , 10, 155	8 7.4	35
108	Sequential Electrostatic Assembly of a Polymer Surfactant Corona Increases Activity of the Phosphotriesterase arPTE. <i>Bioconjugate Chemistry</i> , 2019 , 30, 2771-2776	6.3	6
107	Cryptic genetic variation shapes the adaptive evolutionary potential of enzymes. <i>ELife</i> , 2019 , 8,	8.9	18
106	Cofactor F420-Dependent Enzymes: An Under-Explored Resource for Asymmetric Redox Biocatalysis. <i>Catalysts</i> , 2019 , 9, 868	4	12
105	Structural Basis for the Allosteric Regulation of the SbtA Bicarbonate Transporter by the P-like Protein, SbtB, from sp. PCC7001. <i>Biochemistry</i> , 2019 , 58, 5030-5039	3.2	14
104	Higher-order epistasis shapes the fitness landscape of a xenobiotic-degrading enzyme. <i>Nature Chemical Biology</i> , 2019 , 15, 1120-1128	11.7	35
103	Denisovan, modern human and mouse TNFAIP3 alleles tune A20 phosphorylation and immunity. <i>Nature Immunology</i> , 2019 , 20, 1299-1310	19.1	29
102	The Structure and Stability of the Disulfide-Linked B-Crystallin Dimer Provide Insight into Oxidation Products Associated with Lens Cataract Formation. <i>Journal of Molecular Biology</i> , 2019 , 431, 483-497	6.5	27
101	FAD-sequestering proteins protect mycobacteria against hypoxic and oxidative stress. <i>Journal of Biological Chemistry</i> , 2019 , 294, 2903-2912	5.4	7
100	The molecular basis for the neofunctionalization of the juvenile hormone esterase duplication in Drosophila. <i>Insect Biochemistry and Molecular Biology</i> , 2019 , 106, 10-18	4.5	5
99	An integrative analysis of non-coding regulatory DNA variations associated with autism spectrum disorder. <i>Molecular Psychiatry</i> , 2019 , 24, 1707-1719	15.1	38

(2016-2018)

98	Evolution of cyclohexadienyl dehydratase from an ancestral solute-binding protein. <i>Nature Chemical Biology</i> , 2018 , 14, 542-547	11.7	51
97	Monitoring hippocampal glycine with the computationally designed optical sensor GlyFS. <i>Nature Chemical Biology</i> , 2018 , 14, 861-869	11.7	36
96	Laboratory evolution of protein conformational dynamics. <i>Current Opinion in Structural Biology</i> , 2018 , 50, 49-57	8.1	56
95	The evolution of multiple active site configurations in a designed enzyme. <i>Nature Communications</i> , 2018 , 9, 3900	17.4	50
94	Hydrogel-Immobilized Supercharged Proteins. <i>Advanced Biology</i> , 2018 , 2, 1700240	3.5	6
93	Molecular basis for the behavioral effects of the odorant degrading enzyme Esterase 6 in Drosophila. <i>Scientific Reports</i> , 2017 , 7, 46188	4.9	33
92	Total Syntheses of the Amaryllidaceae Alkaloids Zephycandidine III and Lycosinine A and Their Evaluation as Inhibitors of Acetylcholinesterase. <i>European Journal of Organic Chemistry</i> , 2017 , 2017, 404	1 4 -405	3 ⁴
91	Ancestral Protein Reconstruction and Circular Permutation for Improving the Stability and Dynamic Range of FRET Sensors. <i>Methods in Molecular Biology</i> , 2017 , 1596, 71-87	1.4	5
90	Structural reconstruction of protein ancestry. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 3897-3902	11.5	5
89	Method for Developing Optical Sensors Using a Synthetic Dye-Fluorescent Protein FRET Pair and Computational Modeling and Assessment. <i>Methods in Molecular Biology</i> , 2017 , 1596, 89-99	1.4	1
88	Constrained evolution of a bispecific enzyme: lessons for biocatalyst design. <i>Organic and Biomolecular Chemistry</i> , 2017 , 15, 937-946	3.9	7
87	Structure of an Insecticide Sequestering Carboxylesterase from the Disease Vector Culex quinquefasciatus: What Makes an Enzyme a Good Insecticide Sponge?. <i>Biochemistry</i> , 2017 , 56, 5512-552	3 .2	14
86	The Synthesis of Certain Derivatives and Analogues of (-)- and (+)-Galanthamine and an Assessment of their Capacities to Inhibit Acetylcholine Esterase. <i>Journal of Organic Chemistry</i> , 2017 , 82, 7869-7886	4.2	9
85	The methanogenic redox cofactor F is widely synthesized by aerobic soil bacteria. <i>ISME Journal</i> , 2017 , 11, 125-137	11.9	43
84	Mycobacterial FH-Dependent Reductases Promiscuously Reduce Diverse Compounds through a Common Mechanism. <i>Frontiers in Microbiology</i> , 2017 , 8, 1000	5.7	20
83	Cofactor Tail Length Modulates Catalysis of Bacterial F-Dependent Oxidoreductases. <i>Frontiers in Microbiology</i> , 2017 , 8, 1902	5.7	10
82	T-dependent B cell responses to Plasmodium induce antibodies that form a high-avidity multivalent complex with the circumsporozoite protein. <i>PLoS Pathogens</i> , 2017 , 13, e1006469	7.6	36
81	Hydrophobic Shielding Drives Catalysis of Hydride Transfer in a Family of FH-Dependent Enzymes. <i>Biochemistry</i> , 2016 , 55, 6908-6918	3.2	8

80	The Redox Cofactor F Protects Mycobacteria from Diverse Antimicrobial Compounds and Mediates a Reductive Detoxification System. <i>Applied and Environmental Microbiology</i> , 2016 , 82, 6810-6818	4.8	23
79	The role of protein dynamics in the evolution of new enzyme function. <i>Nature Chemical Biology</i> , 2016 , 12, 944-950	11.7	166
78	Conformational Tinkering Drives Evolution of a Promiscuous Activity through Indirect Mutational Effects. <i>Biochemistry</i> , 2016 , 55, 4583-93	3.2	33
77	Sensing and signaling of oxidative stress in chloroplasts by inactivation of the SAL1 phosphoadenosine phosphatase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, E4567-76	11.5	101
76	Probing the mechanisms for the selectivity and promiscuity of methyl parathion hydrolase. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2016 , 374,	3	19
75	Rangefinder: A Semisynthetic FRET Sensor Design Algorithm. <i>ACS Sensors</i> , 2016 , 1, 1286-1290	9.2	10
74	Active Site Desolvation and Thermostability Trade-Offs in the Evolution of Catalytically Diverse Triazine Hydrolases. <i>Biochemistry</i> , 2016 , 55, 6304-6313	3.2	7
73	Conformational Disorganization within the Active Site of a Recently Evolved Organophosphate Hydrolase Limits Its Catalytic Efficiency. <i>Biochemistry</i> , 2016 , 55, 1408-17	3.2	17
72	Evolution of Protein Quaternary Structure in Response to Selective Pressure for Increased Thermostability. <i>Journal of Molecular Biology</i> , 2016 , 428, 2359-2371	6.5	26
71	Ancestral Protein Reconstruction Yields Insights into Adaptive Evolution of Binding Specificity in Solute-Binding Proteins. <i>Cell Chemical Biology</i> , 2016 , 23, 236-245	8.2	59
70	Genomic and metagenomic surveys of hydrogenase distribution indicate H2 is a widely utilised energy source for microbial growth and survival. <i>ISME Journal</i> , 2016 , 10, 761-77	11.9	319
69	The Evolution of New Catalytic Mechanisms for Xenobiotic Hydrolysis in Bacterial Metalloenzymes. <i>Australian Journal of Chemistry</i> , 2016 , 69, 1383	1.2	5
68	Mapping the Accessible Conformational Landscape of an Insect Carboxylesterase Using Conformational Ensemble Analysis and Kinetic Crystallography. <i>Structure</i> , 2016 , 24, 977-87	5.2	12
67	Protonation state of F420H2 in the prodrug-activating deazaflavin dependent nitroreductase (Ddn) from Mycobacterium tuberculosis. <i>Molecular BioSystems</i> , 2016 , 12, 1110-3		15
66	Phosphorescent oxygen-sensing and singlet oxygen production by a biosynthetic silk. <i>RSC Advances</i> , 2016 , 6, 39530-39533	3.7	11
65	Physiology, Biochemistry, and Applications of F420- and Fo-Dependent Redox Reactions. <i>Microbiology and Molecular Biology Reviews</i> , 2016 , 80, 451-93	13.2	88
64	Rv2074 is a novel F420 H2 -dependent biliverdin reductase in Mycobacterium tuberculosis. <i>Protein Science</i> , 2016 , 25, 1692-709	6.3	18
63	Classification and substrate head-group specificity of membrane fatty acid desaturases. Computational and Structural Biotechnology Journal, 2016, 14, 341-349	6.8	14

62	Sequence-Structure-Function Classification of a Catalytically Diverse Oxidoreductase Superfamily in Mycobacteria. <i>Journal of Molecular Biology</i> , 2015 , 427, 3554-3571	6.5	47
61	Devising New Syntheses of the Alkaloid Galanthamine, a Potent and Clinically Deployed Inhibitor of Acetylcholine Esterase. <i>Strategies and Tactics in Organic Synthesis</i> , 2015 , 29-50	0.2	4
60	Predicting X-ray diffuse scattering from translation-libration-screw structural ensembles. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2015 , 71, 1657-67		9
59	Construction of a robust and sensitive arginine biosensor through ancestral protein reconstruction. <i>Protein Science</i> , 2015 , 24, 1412-22	6.3	47
58	Evolutionary expansion of the amidohydrolase superfamily in bacteria in response to the synthetic compounds molinate and diuron. <i>Applied and Environmental Microbiology</i> , 2015 , 81, 2612-24	4.8	16
57	Dynamic Motion and Communication in the Streptococcal C1 Phage Lysin, PlyC. <i>PLoS ONE</i> , 2015 , 10, e0	1 40 21!	9 3
56	Reverse evolution leads to genotypic incompatibility despite functional and active site convergence. <i>ELife</i> , 2015 , 4,	8.9	51
55	Enzyme dynamics and engineering: one step at a time. <i>Chemistry and Biology</i> , 2014 , 21, 1259-1260		6
54	Synthesis of a D-ring isomer of galanthamine via a radical-based Smiles rearrangement reaction. Journal of Organic Chemistry, 2014 , 79, 6759-64	4.2	17
53	300-Fold increase in production of the Zn2+-dependent dechlorinase TrzN in soluble form via apoenzyme stabilization. <i>Applied and Environmental Microbiology</i> , 2014 , 80, 4003-11	4.8	10
52	Iron(III) located in the dinuclear metallo-Elactamase IMP-1 by pseudocontact shifts. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 14269-72	16.4	11
51	A 5000-fold increase in the specificity of a bacterial phosphotriesterase for malathion through combinatorial active site mutagenesis. <i>PLoS ONE</i> , 2014 , 9, e94177	3.7	28
50	Crystal structure of the mouse interleukin-3 Freceptor: insights into interleukin-3 binding and receptor activation. <i>Biochemical Journal</i> , 2014 , 463, 393-403	3.8	5
49	Pseudokontaktverschiebungen lokalisieren Eisen(III) in der zweikernigen Metallo-£Laktamase IMP-1. <i>Angewandte Chemie</i> , 2014 , 126, 14494-14497	3.6	1
48	Use of OpdA, an organophosphorus (OP) hydrolase, prevents lethality in an African green monkey model of acute OP poisoning. <i>Toxicology</i> , 2014 , 317, 1-5	4.4	15
47	Protein engineering with unnatural amino acids. Current Opinion in Structural Biology, 2013, 23, 581-7	8.1	63
46	Structure and function of an insect Ecarboxylesterase (Esterase7) associated with insecticide resistance. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 10177-82	11.5	84
45	Testing the evolvability of an insect carboxylesterase for the detoxification of synthetic pyrethroid insecticides. <i>Insect Biochemistry and Molecular Biology</i> , 2012 , 42, 343-52	4.5	34

44	Reconstructing a missing link in the evolution of a recently diverged phosphotriesterase by active-site loop remodeling. <i>Biochemistry</i> , 2012 , 51, 6047-55	3.2	109
43	Diminishing returns and tradeoffs constrain the laboratory optimization of an enzyme. <i>Nature Communications</i> , 2012 , 3, 1257	17.4	156
42	A polymer surfactant corona dynamically replaces water in solvent-free protein liquids and ensures macromolecular flexibility and activity. <i>Journal of the American Chemical Society</i> , 2012 , 134, 13168-71	16.4	41
41	Intramolecular epistasis and the evolution of a new enzymatic function. <i>PLoS ONE</i> , 2012 , 7, e39822	3.7	42
40	The evolution of new enzyme function: lessons from xenobiotic metabolizing bacteria versus insecticide-resistant insects. <i>Evolutionary Applications</i> , 2011 , 4, 225-48	4.8	78
39	Improving a natural enzyme activity through incorporation of unnatural amino acids. <i>Journal of the American Chemical Society</i> , 2011 , 133, 326-33	16.4	67
38	Mining electron density for functionally relevant protein polysterism in crystal structures. <i>Cellular and Molecular Life Sciences</i> , 2011 , 68, 1829-41	10.3	19
37	Carboxylesterases in the Metabolism and Toxicity of Pesticides 2011 , 57-75		2
36	Competing S(N)2 and E2 reaction pathways for hexachlorocyclohexane degradation in the gas phase, solution and enzymes. <i>Chemical Communications</i> , 2011 , 47, 976-8	5.8	17
35	Kinetic and sequence-structure-function analysis of known LinA variants with different hexachlorocyclohexane isomers. <i>PLoS ONE</i> , 2011 , 6, e25128	3.7	14
34	Kinetics and efficacy of an organophosphorus hydrolase in a rodent model of methyl-parathion poisoning. <i>Academic Emergency Medicine</i> , 2010 , 17, 736-40	3.4	12
33	Identification and characterization of two families of F420 H2-dependent reductases from Mycobacteria that catalyse aflatoxin degradation. <i>Molecular Microbiology</i> , 2010 , 78, 561-75	4.1	105
32	Biochemistry of microbial degradation of hexachlorocyclohexane and prospects for bioremediation. <i>Microbiology and Molecular Biology Reviews</i> , 2010 , 74, 58-80	13.2	281
31	Mutation of outer-shell residues modulates metal ion co-ordination strength in a metalloenzyme. <i>Biochemical Journal</i> , 2010 , 429, 313-21	3.8	16
30	Evolutionary optimization of computationally designed enzymes: Kemp eliminases of the KE07 series. <i>Journal of Molecular Biology</i> , 2010 , 396, 1025-42	6.5	132
29	Directed Evolution of Enzymes 2010 , 723-749		2
28	Pharmacokinetics of OpdA, an organophosphorus hydrolase, in the African green monkey. <i>Biochemical Pharmacology</i> , 2010 , 80, 1075-9	6	18
27	Directed Evolution of Enzymes 2010 , 654-673		1

(2004-2009)

26	Conformational sampling, catalysis, and evolution of the bacterial phosphotriesterase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 21631-6	11.5	93	
25	Catalytic improvement and evolution of atrazine chlorohydrolase. <i>Applied and Environmental Microbiology</i> , 2009 , 75, 2184-91	4.8	54	
24	Structure-based rational design of a phosphotriesterase. <i>Applied and Environmental Microbiology</i> , 2009 , 75, 5153-6	4.8	28	
23	Use of engineered enzymes to identify organophosphate and pyrethroid-related toxicity in toxicity identification evaluations. <i>Environmental Science & Environmental Science &</i>	10.3	51	
22	Characterization of the phenylurea hydrolases A and B: founding members of a novel amidohydrolase subgroup. <i>Biochemical Journal</i> , 2009 , 418, 431-41	3.8	50	
21	In crystallo capture of a Michaelis complex and product-binding modes of a bacterial phosphotriesterase. <i>Journal of Molecular Biology</i> , 2008 , 375, 1189-96	6.5	78	
20	Substrate-promoted formation of a catalytically competent binuclear center and regulation of reactivity in a glycerophosphodiesterase from Enterobacter aerogenes. <i>Journal of the American Chemical Society</i> , 2008 , 130, 14129-38	16.4	64	
19	Bridging the synaptic gap: neuroligins and neurexin I in Apis mellifera. <i>PLoS ONE</i> , 2008 , 3, e3542	3.7	46	
18	The enzymatic basis for pesticide bioremediation. <i>Indian Journal of Microbiology</i> , 2008 , 48, 65-79	3.7	120	
17	Cloning, expression, purification, crystallization and preliminary X-ray studies of a pyridoxine 5Sphosphate oxidase from Mycobacterium smegmatis. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2008 , 64, 435-7		2	
16	Malonate-bound structure of the glycerophosphodiesterase from Enterobacter aerogenes (GpdQ) and characterization of the native Fe2+ metal-ion preference. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2008 , 64, 681-5		21	
15	The structure and function of a novel glycerophosphodiesterase from Enterobacter aerogenes. <i>Journal of Molecular Biology</i> , 2007 , 367, 1047-62	6.5	62	
14	Anomalous scattering analysis of Agrobacterium radiobacter phosphotriesterase: the prominent role of iron in the heterobinuclear active site. <i>Biochemical Journal</i> , 2006 , 397, 501-8	3.8	52	
13	The purification, crystallization and preliminary diffraction of a glycerophosphodiesterase from Enterobacter aerogenes. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2006 , 62, 659-61		8	
12	Increased expression of a bacterial phosphotriesterase in Escherichia coli through directed evolution. <i>Protein Expression and Purification</i> , 2005 , 41, 433-40	2	25	
11	The effects of substrate orientation on the mechanism of a phosphotriesterase. <i>Organic and Biomolecular Chemistry</i> , 2005 , 3, 4343-50	3.9	27	
10	The structure of an enzyme-product complex reveals the critical role of a terminal hydroxide nucleophile in the bacterial phosphotriesterase mechanism. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2005 , 1752, 56-64	4	64	
9	Growth of Escherichia coli coexpressing phosphotriesterase and glycerophosphodiester phosphodiesterase, using paraoxon as the sole phosphorus source. <i>Applied and Environmental Microbiology</i> , 2004 , 70, 404-12	4.8	62	

8	Avid binding by B cells to the Plasmodium circumsporozoite protein repeat suppresses responses to protective subdominant epitopes	2
7	Altered conformational sampling along an evolutionary trajectory changes the catalytic activity of an enzyme	3
6	Cellular and structural basis of synthesis of the unique intermediate dehydro-F420-0 in mycobacteria	1
5	A computationally designed fluorescent biosensor for D-serine	3
4	The NK Landscape as a Versatile Benchmark for Machine Learning Driven Protein Engineering	5
3	The NK Landscape as a Versatile Benchmark for Machine Learning Driven Protein Engineering Higher-order epistatic networks underlie the evolutionary fitness landscape of a xenobiotic-degrading enzyme	2
	Higher-order epistatic networks underlie the evolutionary fitness landscape of a	