Margaret E Glasner

List of Publications by Year
in descending order

24 papers	3,742 citations	516215 16 h-index	610482 24 g-index
25 all docs	25 docs citations	25 times ranked	4284 citing authors

#	Article	IF	Citations
1	Second-Shell Amino Acid R266 Helps Determine <i>N</i>-Succinylamino Acid Racemase Reaction Specificity in Promiscuous <i>N</i>-Succinylamino Acid Racemase/<i>o</i>-Succinylbenzoate Synthase Enzymes. Biochemistry, 2021, 60, 3829-3840.	1.2	2
2	How enzyme promiscuity and horizontal gene transfer contribute to metabolic innovation. FEBS Journal, 2020, 287, 1323-1342.	2.2	42
3	Oxidative opening of the aromatic ring: Tracing the natural history of a large superfamily of dioxygenase domains and their relatives. Journal of Biological Chemistry, 2019, 294, 10211-10235.	1.6	24
4	Comparison of <i>Alicyclobacillus acidocaldarius</i> <i>o</i>-Succinylbenzoate Synthase to Its Promiscuous <i>N</i>-Succinylamino Acid Racemase/<i>o</i>-Succinylbenzoate Synthase Relatives. Biochemistry, 2018, 57, 3676-3689.	1.2	9
5	Finding enzymes in the gut metagenome. Science, 2017, 355, 577-578.	6.0	13
6	Promiscuity of Exiguobacterium sp. AT1b o-succinylbenzoate synthase illustrates evolutionary transitions in the OSBS family. Biochemical and Biophysical Research Communications, 2014, 450, 679-684.	1.0	10
7	Role of an Active Site Loop in the Promiscuous Activities of <i>Amycolatopsis</i> sp. T-1-60 NSAR/OSBS. Biochemistry, 2014, 53, 4434-4444.	1.2	11
8	Loss of quaternary structure is associated with rapid sequence divergence in the OSBS family. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 8535-8540.	3.3	29
9	Divergent Evolution of Ligand Binding in theo-Succinylbenzoate Synthase Family. Biochemistry, 2013, 52, 7512-7521.	1.2	14
10	Residues Required for Activity in <i>Escherichia coli o</i>-Succinylbenzoate Synthase (OSBS) Are Not Conserved in All OSBS Enzymes. Biochemistry, 2012, 51, 6171-6181.	1.2	14
11	Mechanisms of Protein Evolution and their Application to Protein Engineering. Advances in Enzymology and Related Areas of Molecular Biology, 2010, 75, 193-239.	1.3	25
12	Target selection and annotation for the structural genomics of the amidohydrolase and enolase superfamilies. Journal of Structural and Functional Genomics, 2009, 10, 107-125.	1.2	25
13	Evolution of Enzymatic Activities in the Enolase Superfamily: Stereochemically Distinct Mechanisms in Two Families of <i>cis</i>,<i>cis</i>-Muconate Lactonizing Enzymes. Biochemistry, 2009, 48, 1445-1453.	1.2	36
14	Discovery of a Dipeptide Epimerase Enzymatic Function Guided by Homology Modeling and Virtual Screening. Structure, 2008, 16, 1668-1677.	1.6	52
15	Evolution of Enzymatic Activities in the Enolase Superfamily: <scp>l</scp>-Rhamnonate Dehydratase. Biochemistry, 2008, 47, 9944-9954.	1.2	50
16	Evolution of Enzymatic Activities in the Enolase Superfamily:â€‰ <scp>d</scp>-Mannonate Dehydratase from <i>Novosphingobium aromaticivoran</i>s[,]. Biochemistry, 2007, 46, 12896-12908.	1.2	35
17	Prediction and assignment of function for a divergent N-succinyl amino acid racemase. Nature Chemical Biology, 2007, 3, 486-491.	3.9	98
18	Evolution of Structure and Function in the o-Succinylbenzoate Synthase/N-Acylamino Acid Racemase Family of the Enolase Superfamily. Journal of Molecular Biology, 2006, 360, 228-250.	2.0	65

#	ARTICLE	IF	CITATIONS
19	Evolution of enzyme superfamilies. Current Opinion in Chemical Biology, 2006, 10, 492-497.	2.8	209
20	MicroRNAs Regulate Brain Morphogenesis in Zebrafish. Science, 2005, 308, 833-838.	6.0	1,209
21	Vertebrate MicroRNA Genes. Science, 2003, 299, 1540-1540.	6.0	1,035
22	Metal Ion Requirements for Structure and Catalysis of an RNA Ligase Ribozymeâ€. Biochemistry, 2002, 41, 8103-8112.	1.2	38
23	RNA-Catalyzed RNA Polymerization: Accurate and General RNA-Templated Primer Extension. Science, 2001, 292, 1319-1325.	6.0	680
24	Recognition of Nucleoside Triphosphates during RNA-Catalyzed Primer Extensionâ€. Biochemistry, 2000, 39, 15556-15562.	1.2	17