Moshe Goldsmith

List of Publications by Year
in descending order

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24	1,871	471509 17	610901 24
papers	citations	h-index	g-index

26	26	26	2455
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Automated Structure- and Sequence-Based Design of Proteins for High Bacterial Expression and Stability. Molecular Cell, 2016, 63, 337-346.	9.7	363
2	Computational redesign of a mononuclear zinc metalloenzyme for organophosphate hydrolysis. Nature Chemical Biology, 2012, 8, 294-300.	8.0	205
3	Directed evolution of hydrolases for prevention of G-type nerve agent intoxication. Nature Chemical Biology, 2011, 7, 120-125.	8.0	176
4	Quantitative Analysis of Translesion DNA Synthesis across a Benzo[a]pyrene-Guanine Adduct in Mammalian Cells. Journal of Biological Chemistry, 2004, 279, 53298-53305.	3.4	168
5	Directed enzyme evolution: beyond the low-hanging fruit. Current Opinion in Structural Biology, 2012, 22, 406-412.	5.7	167
6	Design and in vitro realization of carbon-conserving photorespiration. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E11455-E11464.	7.1	97
7	Enzyme engineering: reaching the maximal catalytic efficiency peak. Current Opinion in Structural Biology, 2017, 47, 140-150.	5.7	87
8	Evolved Stereoselective Hydrolases for Broad-Spectrum G-Type Nerve Agent Detoxification. Chemistry and Biology, 2012, 19, 456-466.	6.0	81
9	Potential role of phenotypic mutations in the evolution of protein expression and stability. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 6197-6202.	7.1	75
10	Enzyme Engineering by Targeted Libraries. Methods in Enzymology, 2013, 523, 257-283.	1.0	73
11	Overcoming an optimization plateau in the directed evolution of highly efficient nerve agent bioscavengers. Protein Engineering, Design and Selection, 2017, 30, 333-345.	2.1	57
12	Efficacy of the rePON1 mutant IIG1 to prevent cyclosarin toxicity in vivo and to detoxify structurally different nerve agents in vitro. Archives of Toxicology, 2014, 88, 1257-1266.	4.2	51
13	Catalytic efficiencies of directly evolved phosphotriesterase variants with structurally different organophosphorus compounds in vitro. Archives of Toxicology, 2016, 90, 2711-2724.	4.2	42
14	Post-exposure treatment of VX poisoned guinea pigs with the engineered phosphotriesterase mutant C23: A proof-of-concept study. Toxicology Letters, 2014, 231, 45-54.	0.8	40
15	Catalytic bioscavengers as countermeasures against organophosphate nerve agents. Chemico-Biological Interactions, 2018, 292, 50-64.	4.0	36
16	Avoiding and controlling double transformation artifacts. Protein Engineering, Design and Selection, 2007, 20, 315-318.	2.1	33
17	Single treatment of VX poisoned guinea pigs with the phosphotriesterase mutant C23AL: Intraosseous versus intravenous injection. Toxicology Letters, 2016, 258, 198-206.	0.8	24
18	In vitro detoxification of cyclosarin in human blood pre-incubated ex vivo with recombinant serum paraoxonases. Toxicology Letters, 2011, 206, 24-28.	0.8	17

#	Article	IF	Citations
19	InÂvitro evaluation of the catalytic activity of paraoxonases and phosphotriesterases predicts the enzyme circulatory levels required for inÂvivo protection against organophosphate intoxications. Chemico-Biological Interactions, 2016, 259, 252-256.	4.0	17
20	A new post-intoxication treatment of paraoxon and parathion poisonings using an evolved PON1 variant and recombinant GOT1. Chemico-Biological Interactions, 2016, 259, 242-251.	4.0	17
21	Analysis of Strand Transfer and Template Switching Mechanisms of DNA Gap Repair by Homologous Recombination in Escherichia coli: Predominance of Strand Transfer. Journal of Molecular Biology, 2008, 381, 803-809.	4.2	14
22	Generating Targeted Libraries by the Combinatorial Incorporation of Synthetic Oligonucleotides During Gene Shuffling (ISOR). Methods in Molecular Biology, 2014, 1179, 129-137.	0.9	11
23	Identification and characterization of the key enzyme in the biosynthesis of the neurotoxin Î²-ODAP in grass pea. Journal of Biological Chemistry, 2022, , 101806.	3.4	10
24	The identification and characterization of an oxalyl-CoA synthetase from grass pea (<i>Lathyrus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 5	4.1	9