

Moshe Goldsmith

List of Publications by Year in descending order

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Version: 2024-02-01

24
papers

1,871
citations

471509

17
h-index

610901

24
g-index

26
all docs

26
docs citations

26
times ranked

2455
citing authors

#	ARTICLE	IF	CITATIONS
1	The identification and characterization of an oxalyl-CoA synthetase from grass pea (<i>Lathyrus) Tj ETQq1 1 0.784314 rgBT /Qverlock	4.1	10
2	Identification and characterization of the key enzyme in the biosynthesis of the neurotoxin $\hat{1}^2$ -ODAP in grass pea. <i>Journal of Biological Chemistry</i> , 2022, , 101806.	3.4	10
3	Design and in vitro realization of carbon-conserving photorespiration. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E11455-E11464.	7.1	97
4	Catalytic bioscavengers as countermeasures against organophosphate nerve agents. <i>Chemico-Biological Interactions</i> , 2018, 292, 50-64.	4.0	36
5	Overcoming an optimization plateau in the directed evolution of highly efficient nerve agent bioscavengers. <i>Protein Engineering, Design and Selection</i> , 2017, 30, 333-345.	2.1	57
6	Enzyme engineering: reaching the maximal catalytic efficiency peak. <i>Current Opinion in Structural Biology</i> , 2017, 47, 140-150.	5.7	87
7	InÂvitro evaluation of the catalytic activity of paraoxonases and phosphotriesterases predicts the enzyme circulatory levels required for inÂvivo protection against organophosphate intoxications. <i>Chemico-Biological Interactions</i> , 2016, 259, 252-256.	4.0	17
8	Automated Structure- and Sequence-Based Design of Proteins for High Bacterial Expression and Stability. <i>Molecular Cell</i> , 2016, 63, 337-346.	9.7	363
9	Single treatment of VX poisoned guinea pigs with the phosphotriesterase mutant C23AL: Intraosseous versus intravenous injection. <i>Toxicology Letters</i> , 2016, 258, 198-206.	0.8	24
10	A new post-intoxication treatment of paraoxon and parathion poisonings using an evolved PON1 variant and recombinant GOT1. <i>Chemico-Biological Interactions</i> , 2016, 259, 242-251.	4.0	17
11	Catalytic efficiencies of directly evolved phosphotriesterase variants with structurally different organophosphorus compounds in vitro. <i>Archives of Toxicology</i> , 2016, 90, 2711-2724.	4.2	42
12	Efficacy of the rePON1 mutant IIG1 to prevent cyclosarin toxicity in vivo and to detoxify structurally different nerve agents in vitro. <i>Archives of Toxicology</i> , 2014, 88, 1257-1266.	4.2	51
13	Post-exposure treatment of VX poisoned guinea pigs with the engineered phosphotriesterase mutant C23: A proof-of-concept study. <i>Toxicology Letters</i> , 2014, 231, 45-54.	0.8	40
14	Generating Targeted Libraries by the Combinatorial Incorporation of Synthetic Oligonucleotides During Gene Shuffling (ISOR). <i>Methods in Molecular Biology</i> , 2014, 1179, 129-137.	0.9	11
15	Enzyme Engineering by Targeted Libraries. <i>Methods in Enzymology</i> , 2013, 523, 257-283.	1.0	73
16	Directed enzyme evolution: beyond the low-hanging fruit. <i>Current Opinion in Structural Biology</i> , 2012, 22, 406-412.	5.7	167
17	Computational redesign of a mononuclear zinc metalloenzyme for organophosphate hydrolysis. <i>Nature Chemical Biology</i> , 2012, 8, 294-300.	8.0	205
18	Evolved Stereoselective Hydrolases for Broad-Spectrum G-Type Nerve Agent Detoxification. <i>Chemistry and Biology</i> , 2012, 19, 456-466.	6.0	81

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19	In vitro detoxification of cyclosarin in human blood pre-incubated ex vivo with recombinant serum paraoxonases. <i>Toxicology Letters</i> , 2011, 206, 24-28.	0.8	17
20	Directed evolution of hydrolases for prevention of G-type nerve agent intoxication. <i>Nature Chemical Biology</i> , 2011, 7, 120-125.	8.0	176
21	Potential role of phenotypic mutations in the evolution of protein expression and stability. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 6197-6202.	7.1	75
22	Analysis of Strand Transfer and Template Switching Mechanisms of DNA Gap Repair by Homologous Recombination in <i>Escherichia coli</i> : Predominance of Strand Transfer. <i>Journal of Molecular Biology</i> , 2008, 381, 803-809.	4.2	14
23	Avoiding and controlling double transformation artifacts. <i>Protein Engineering, Design and Selection</i> , 2007, 20, 315-318.	2.1	33
24	Quantitative Analysis of Translesion DNA Synthesis across a Benzo[a]pyrene-Guanine Adduct in Mammalian Cells. <i>Journal of Biological Chemistry</i> , 2004, 279, 53298-53305.	3.4	168