

# Liam M Longo

## List of Publications by Year in descending order

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Version: 2024-02-01

24  
papers

657  
citations

623734

14  
h-index

642732

23  
g-index

33  
all docs

33  
docs citations

33  
times ranked

756  
citing authors

#	ARTICLE	IF	CITATIONS
1	Simplified protein design biased for prebiotic amino acids yields a foldable, halophilic protein. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 2135-2139.	7.1	96
2	A Bird's-Eye View of Enzyme Evolution: Chemical, Physicochemical, and Physiological Considerations. <i>Chemical Reviews</i> , 2018, 118, 8786-8797.	47.7	88
3	Protein design at the interface of the pre-biotic and biotic worlds. <i>Archives of Biochemistry and Biophysics</i> , 2012, 526, 16-21.	3.0	69
4	On the emergence of P-Loop NTPase and Rossmann enzymes from a Beta-Alpha-Beta ancestral fragment. <i>ELife</i> , 2020, 9, .	6.0	61
5	Primordial emergence of a nucleic acid-binding protein via phase separation and statistical ornithine-to-arginine conversion. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 15731-15739.	7.1	58
6	Short and simple sequences favored the emergence of N-helix phospho-ligand binding sites in the first enzymes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 5310-5318.	7.1	32
7	<i>Bacilli</i> glutamate dehydrogenases diverged via coevolution of transcription and enzyme regulation. <i>EMBO Reports</i> , 2017, 18, 1139-1149.	4.5	26
8	A Logical OR Redundancy within the Asx-Pro-Asx-Gly Type I $\beta$ -Turn Motif. <i>Journal of Molecular Biology</i> , 2008, 377, 1251-1264.	4.2	24
9	Bacterial wilt induced changes in nutrient distribution and biomass and the effect of acibenzolar-S-methyl on bacterial wilt in tomato. <i>Crop Protection</i> , 2007, 26, 978-982.	2.1	22
10	Evolution and Design of Protein Structure by Folding Nucleus Symmetric Expansion. <i>Structure</i> , 2014, 22, 1377-1384.	3.3	20
11	Mutation Choice to Eliminate Buried Free Cysteines in Protein Therapeutics. <i>Journal of Pharmaceutical Sciences</i> , 2015, 104, 566-576.	3.3	20
12	Prebiotic protein design supports a halophile origin of foldable proteins. <i>Frontiers in Microbiology</i> , 2014, 4, 418.	3.5	19
13	Polyamines Mediate Folding of Primordial Hyperacidic Helical Proteins. <i>Biochemistry</i> , 2020, 59, 4456-4462.	2.5	17
14	A single aromatic core mutation converts a designed "primitive" protein from halophile to mesophile folding. <i>Protein Science</i> , 2015, 24, 27-37.	7.6	16
15	Evolution of a protein folding nucleus. <i>Protein Science</i> , 2016, 25, 1227-1240.	7.6	16
16	Helicase-like functions in phosphate loop containing beta-alpha polypeptides. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	14
17	Alternative Folding Nuclei Definitions Facilitate the Evolution of a Symmetric Protein Fold from a Smaller Peptide Motif. <i>Structure</i> , 2013, 21, 2042-2050.	3.3	13
18	Ab initio folding of a trefoil fold motif reveals structural similarity with a propeller blade motif. <i>Protein Science</i> , 2020, 29, 1172-1185.	7.6	12

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19	The evolutionary history of the HUP domain. <i>Critical Reviews in Biochemistry and Molecular Biology</i> , 2022, 57, 1-15.	5.2	7
20	Folding nucleus structure persists in thermally aggregated FGF1. <i>Protein Science</i> , 2018, 27, 431-440.	7.6	6
21	Evidence for the emergence of $\beta^2$ -trefoils by "Peptide Budding"™ from an IgG-like $\beta^2$ -sandwich. <i>PLoS Computational Biology</i> , 2022, 18, e1009833.	3.2	6
22	Kallikrein-related peptidase 6: A biomarker for traumatic brain injury in the rat. <i>Brain Injury</i> , 2013, 27, 1698-1706.	1.2	3
23	Symmetric Protein Architecture in Protein Design: Top-Down Symmetric Deconstruction. <i>Methods in Molecular Biology</i> , 2014, 1216, 161-182.	0.9	2
24	Dan Salah Tawfik (1955–2021). <i>Nature Ecology and Evolution</i> , 2021, 5, 1328-1329.	7.8	0