

# Lynne Regan

## List of Publications by Citations

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**Version:** 2024-04-20

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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.

40  
papers

2,449  
citations

19  
h-index

42  
g-index

42  
ext. papers

2,724  
ext. citations

5.5  
avg, IF

5.05  
L-index

#	Paper	IF	Citations
40	TPR proteins: the versatile helix. <i>Trends in Biochemical Sciences</i> , <b>2003</b> , 28, 655-62	10.3	859
39	A thermodynamic scale for the beta-sheet forming tendencies of the amino acids. <i>Biochemistry</i> , <b>1994</b> , 33, 5510-7	3.2	375
38	What makes a protein a protein? Hydrophobic core designs that specify stability and structural properties. <i>Protein Science</i> , <b>1996</b> , 5, 1584-93	6.3	166
37	Protein-protein interactions: general trends in the relationship between binding affinity and interfacial buried surface area. <i>Protein Science</i> , <b>2013</b> , 22, 510-5	6.3	152
36	Protein alchemy: changing beta-sheet into alpha-helix. <i>Nature Structural Biology</i> , <b>1997</b> , 4, 548-52		146
35	Stimuli-responsive smart gels realized via modular protein design. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 14024-6	16.4	99
34	The role of backbone conformational heat capacity in protein stability: temperature dependent dynamics of the B1 domain of Streptococcal protein G. <i>Protein Science</i> , <b>2000</b> , 9, 1177-93	6.3	84
33	The de novo design of a rubredoxin-like Fe site. <i>Protein Science</i> , <b>1998</b> , 7, 1939-46	6.3	53
32	The past, present and future of protein-based materials. <i>Open Biology</i> , <b>2018</b> , 8,	7	52
31	A uniform survey of allele-specific binding and expression over 1000-Genomes-Project individuals. <i>Nature Communications</i> , <b>2016</b> , 7, 11101	17.4	51
30	Understanding the sequence determinants of conformational switching using protein design. <i>Protein Science</i> , <b>2000</b> , 9, 1651-9	6.3	44
29	Screening libraries to identify proteins with desired binding activities using a split-GFP reassembly assay. <i>ACS Chemical Biology</i> , <b>2010</b> , 5, 553-62	4.9	42
28	Surface point mutations that significantly alter the structure and stability of a protein's denatured state. <i>Protein Science</i> , <b>1996</b> , 5, 2009-19	6.3	42
27	A modular approach to the design of protein-based smart gels. <i>Biopolymers</i> , <b>2012</b> , 97, 508-17	2.2	36
26	Protein design: Past, present, and future. <i>Biopolymers</i> , <b>2015</b> , 104, 334-50	2.2	32
25	All repeats are not equal: a module-based approach to guide repeat protein design. <i>Journal of Molecular Biology</i> , <b>2013</b> , 425, 1826-1838	6.5	28
24	The power of hard-sphere models: explaining side-chain dihedral angle distributions of Thr and Val. <i>Biophysical Journal</i> , <b>2012</b> , 102, 2345-52	2.9	26

23	Design of Protein-Peptide Interaction Modules for Assembling Supramolecular Structures in Vivo and in Vitro. <i>ACS Chemical Biology</i> , <b>2015</b> , 10, 2108-15	4.9	23
22	Fabrication of Modularly Functionalizable Microcapsules Using Protein-Based Technologies. <i>ACS Biomaterials Science and Engineering</i> , <b>2016</b> , 2, 1856-1861	5.5	19
21	NextGen protein design. <i>Biochemical Society Transactions</i> , <b>2013</b> , 41, 1131-1136	5.1	16
20	LIVE-PAINT allows super-resolution microscopy inside living cells using reversible peptide-protein interactions. <i>Communications Biology</i> , <b>2020</b> , 3, 458	6.7	16
19	Random close packing in protein cores. <i>Physical Review E</i> , <b>2016</b> , 93, 032415	2.4	15
18	Routes to DNA accessibility: alternative pathways for nucleosome unwinding. <i>Biophysical Journal</i> , <b>2014</b> , 107, 384-392	2.9	8
17	Flat Drops, Elastic Sheets, and Microcapsules by Interfacial Assembly of a Bacterial Biofilm Protein, BslA. <i>Langmuir</i> , <b>2017</b> , 33, 13590-13597	4	8
16	Understanding the physical basis for the side-chain conformational preferences of methionine. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2016</b> , 84, 900-11	4.2	8
15	Facile Protein Immobilization Using Engineered Surface-Active Biofilm Proteins. <i>ACS Applied Nano Materials</i> , <b>2018</b> , 1, 2483-2488	5.6	8
14	Void distributions reveal structural link between jammed packings and protein cores. <i>Physical Review E</i> , <b>2019</b> , 99, 022416	2.4	7
13	Equilibrium transitions between side-chain conformations in leucine and isoleucine. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2015</b> , 83, 1488-99	4.2	5
12	Reads meet rotamers: structural biology in the age of deep sequencing. <i>Current Opinion in Structural Biology</i> , <b>2015</b> , 35, 125-34	8.1	5
11	PAINT using proteins: A new brush for super-resolution artists. <i>Protein Science</i> , <b>2020</b> , 29, 2142-2149	6.3	5
10	A designed repeat protein as an affinity capture reagent. <i>Biochemical Society Transactions</i> , <b>2015</b> , 43, 874-80	5.1	4
9	Designed Proteins as Novel Imaging Reagents in Living Escherichia coli. <i>ChemBioChem</i> , <b>2016</b> , 17, 1652-7	3.8	4
8	Analyses of protein cores reveal fundamental differences between solution and crystal structures. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2020</b> , 88, 1154-1161	4.2	2
7	LIVE-PAINT: Super-Resolution Microscopy Inside Live Cells Using Reversible Peptide-Protein Interactions		2
6	Protein engineering strategies with potential applications for altering clinically relevant cellular pathways at the protein level. <i>Expert Review of Proteomics</i> , <b>2016</b> , 13, 481-93	4.2	2

5	A threonine zipper that mediates protein-protein interactions: Structure and prediction. <i>Protein Science</i> , <b>2018</b> , 27, 1969-1977	6.3	2
4	Reply to: Comment on Revisiting the Ramachandran plot from a new angle <i>Protein Science</i> , <b>2011</b> , 20, 1774-1774	6.3	1
3	Using physical features of protein core packing to distinguish real proteins from decoys. <i>Protein Science</i> , <b>2020</b> , 29, 1931-1944	6.3	1
2	Intensification: A Resource for Amplifying Population-Genetic Signals with Protein Repeats. <i>Journal of Molecular Biology</i> , <b>2017</b> , 429, 435-445	6.5	0
1	Rational Design and Self-Assembly of Coiled-Coil Linked SasG Protein Fibrils. <i>ACS Synthetic Biology</i> , <b>2020</b> , 9, 1599-1607	5.7	0