Lynne Regan

List of Publications by Year in Descending Order

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	Rational Design and Self-Assembly of Coiled-Coil Linked SasG Protein Fibrils. *ACS Synthetic Biology*, **2020**, 9, 1599-1607	5.7	0
39	Analyses of protein cores reveal fundamental differences between solution and crystal structures. *Proteins: Structure, Function and Bioinformatics*, **2020**, 88, 1154-1161	4.2	2
38	Using physical features of protein core packing to distinguish real proteins from decoys. *Protein Science*, **2020**, 29, 1931-1944	6.3	1
37	LIVE-PAINT allows super-resolution microscopy inside living cells using reversible peptide-protein interactions. *Communications Biology*, **2020**, 3, 458	6.7	16
36	PAINT using proteins: A new brush for super-resolution artists. *Protein Science*, **2020**, 29, 2142-2149	6.3	5
35	Void distributions reveal structural link between jammed packings and protein cores. *Physical Review E*, **2019**, 99, 022416	2.4	7
34	A threonine zipper that mediates protein-protein interactions: Structure and prediction. *Protein Science*, **2018**, 27, 1969-1977	6.3	2
33	The past, present and future of protein-based materials. *Open Biology*, **2018**, 8,	7	52
32	Facile Protein Immobilization Using Engineered Surface-Active Biofilm Proteins. *ACS Applied Nano Materials*, **2018**, 1, 2483-2488	5.6	8
31	Intensification: A Resource for Amplifying Population-Genetic Signals with Protein Repeats. *Journal of Molecular Biology*, **2017**, 429, 435-445	6.5	0
30	Flat Drops, Elastic Sheets, and Microcapsules by Interfacial Assembly of a Bacterial Biofilm Protein, BslA. *Langmuir*, **2017**, 33, 13590-13597	4	8
29	Random close packing in protein cores. *Physical Review E*, **2016**, 93, 032415	2.4	15
28	Designed Proteins as Novel Imaging Reagents in Living Escherichia coli. *ChemBioChem*, **2016**, 17, 1652-7	3.8	4
27	Understanding the physical basis for the side-chain conformational preferences of methionine. *Proteins: Structure, Function and Bioinformatics*, **2016**, 84, 900-11	4.2	8
26	A uniform survey of allele-specific binding and expression over 1000-Genomes-Project individuals. *Nature Communications*, **2016**, 7, 11101	17.4	51
25	Protein engineering strategies with potential applications for altering clinically relevant cellular pathways at the protein level. *Expert Review of Proteomics*, **2016**, 13, 481-93	4.2	2
24	Fabrication of Modularly Functionalizable Microcapsules Using Protein-Based Technologies. *ACS Biomaterials Science and Engineering*, **2016**, 2, 1856-1861	5.5	19

23	Design of Protein-Peptide Interaction Modules for Assembling Supramolecular Structures in Vivo and in Vitro. *ACS Chemical Biology*, **2015**, 10, 2108-15	4.9	23
22	A designed repeat protein as an affinity capture reagent. *Biochemical Society Transactions*, **2015**, 43, 874-80	5.1	4
21	Equilibrium transitions between side-chain conformations in leucine and isoleucine. *Proteins: Structure, Function and Bioinformatics*, **2015**, 83, 1488-99	4.2	5
20	Protein design: Past, present, and future. *Biopolymers*, **2015**, 104, 334-50	2.2	32
19	Reads meet rotamers: structural biology in the age of deep sequencing. *Current Opinion in Structural Biology*, **2015**, 35, 125-34	8.1	5
18	Routes to DNA accessibility: alternative pathways for nucleosome unwinding. *Biophysical Journal*, **2014**, 107, 384-392	2.9	8
17	All repeats are not equal: a module-based approach to guide repeat protein design. *Journal of Molecular Biology*, **2013**, 425, 1826-1838	6.5	28
16	Protein-protein interactions: general trends in the relationship between binding affinity and interfacial buried surface area. *Protein Science*, **2013**, 22, 510-5	6.3	152
15	NextGen protein design. *Biochemical Society Transactions*, **2013**, 41, 1131-1136	5.1	16
14	A modular approach to the design of protein-based smart gels. *Biopolymers*, **2012**, 97, 508-17	2.2	36
13	The power of hard-sphere models: explaining side-chain dihedral angle distributions of Thr and Val. *Biophysical Journal*, **2012**, 102, 2345-52	2.9	26
12	Reply to: Comment on "Revisiting the Ramachandran plot from a new angle" *Protein Science*, **2011**, 20, 1774-1774	6.3	1
11	Stimuli-responsive smart gels realized via modular protein design. *Journal of the American Chemical Society*, **2010**, 132, 14024-6	16.4	99
10	Screening libraries to identify proteins with desired binding activities using a split-GFP reassembly assay. *ACS Chemical Biology*, **2010**, 5, 553-62	4.9	42
9	TPR proteins: the versatile helix. *Trends in Biochemical Sciences*, **2003**, 28, 655-62	10.3	859
8	The role of backbone conformational heat capacity in protein stability: temperature dependent dynamics of the B1 domain of Streptococcal protein G. *Protein Science*, **2000**, 9, 1177-93	6.3	84
7	Understanding the sequence determinants of conformational switching using protein design. *Protein Science*, **2000**, 9, 1651-9	6.3	44
6	The de novo design of a rubredoxin-like Fe site. *Protein Science*, **1998**, 7, 1939-46	6.3	53

5	Protein alchemy: changing beta-sheet into alpha-helix. *Nature Structural Biology*, **1997**, 4, 548-52		146
4	What makes a protein a protein? Hydrophobic core designs that specify stability and structural properties. *Protein Science*, **1996**, 5, 1584-93	6.3	166
3	Surface point mutations that significantly alter the structure and stability of a protein's denatured state. *Protein Science*, **1996**, 5, 2009-19	6.3	42
2	A thermodynamic scale for the beta-sheet forming tendencies of the amino acids. *Biochemistry*, **1994**, 33, 5510-7	3.2	375
1	LIVE-PAINT: Super-Resolution Microscopy Inside Live Cells Using Reversible Peptide-Protein Interactions		2