

# George D Rose

## List of Publications by Year in descending order

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67  
papers

8,471  
citations

76196

40  
h-index

118652

62  
g-index

72  
all docs

72  
docs citations

72  
times ranked

6173  
citing authors

#	ARTICLE	IF	CITATIONS
1	Turns in Peptides and Proteins. <i>Advances in Protein Chemistry</i> , 1985, 37, 1-109.	4.4	1,532
2	A molecular mechanism for osmolyte-induced protein stability. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 13997-14002.	3.3	594
3	Is protein folding hierarchic? I. Local structure and peptide folding. <i>Trends in Biochemical Sciences</i> , 1999, 24, 26-33.	3.7	488
4	Polyproline II structure in a sequence of seven alanine residues. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 9190-9195.	3.3	478
5	A backbone-based theory of protein folding. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 16623-16633.	3.3	433
6	Hydrogen bonding in globular proteins. <i>Journal of Molecular Biology</i> , 1992, 226, 1143-1159.	2.0	408
7	Is protein folding hierarchic? II. Folding intermediates and transition states. <i>Trends in Biochemical Sciences</i> , 1999, 24, 77-83.	3.7	379
8	Structure and Energetics of the Hydrogen-Bonded Backbone in Protein Folding. <i>Annual Review of Biochemistry</i> , 2008, 77, 339-362.	5.0	355
9	Reassessing random-coil statistics in unfolded proteins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 12497-12502.	3.3	306
10	LINUS: A hierarchic procedure to predict the fold of a protein. <i>Proteins: Structure, Function and Bioinformatics</i> , 1995, 22, 81-99.	1.5	257
11	Hierarchic organization of domains in globular proteins. <i>Journal of Molecular Biology</i> , 1979, 134, 447-470.	2.0	228
12	$\hat{\pi}$ -Helix-forming propensities in peptides and proteins. <i>Proteins: Structure, Function and Bioinformatics</i> , 1994, 19, 85-97.	1.5	167
13	Polyproline II helix is the preferred conformation for unfolded polyalanine in water. <i>Proteins: Structure, Function and Bioinformatics</i> , 2004, 55, 502-507.	1.5	158
14	Do all backbone polar groups in proteins form hydrogen bonds?. <i>Protein Science</i> , 2005, 14, 1911-1917.	3.1	151
15	Local Interactions in Protein Folding: Lessons from the $\hat{\pi}$ -Helix. <i>Journal of Biological Chemistry</i> , 1997, 272, 1413-1416.	1.6	136
16	Modeling Unfolded States of Proteins and Peptides. II. Backbone Solvent Accessibility. <i>Biochemistry</i> , 1997, 36, 2832-2835.	1.2	129
17	A simple model for polyproline II structure in unfolded states of alanine-based peptides. <i>Protein Science</i> , 2009, 11, 2437-2455.	3.1	124
18	Sequence determinants of the capping box, a stabilizing motif at the N-termini of $\hat{\pi}$ -helices. <i>Protein Science</i> , 1994, 3, 1741-1745.	3.1	120

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19	Molten globules, entropy-driven conformational change and protein folding. <i>Current Opinion in Structural Biology</i> , 2013, 23, 4-10.	2.6	112
20	A protein taxonomy based on secondary structure. <i>Nature Structural Biology</i> , 1999, 6, 672-682.	9.7	105
21	Local Secondary Structure Content Predicts Folding Rates for Simple, Two-state Proteins. <i>Journal of Molecular Biology</i> , 2003, 327, 1149-1154.	2.0	105
22	Dry molten globule intermediates and the mechanism of protein unfolding. <i>Proteins: Structure, Function and Bioinformatics</i> , 2010, 78, 2725-2737.	1.5	100
23	The Protein Coil Library: A structural database of nonhelix, nonstrand fragments derived from the PDB. <i>Proteins: Structure, Function and Bioinformatics</i> , 2005, 58, 852-854.	1.5	92
24	Interactions between hydrophobic side chains within $\alpha$ -helices. <i>Protein Science</i> , 1995, 4, 1305-1314.	3.1	79
25	A novel method reveals that solvent water favors polyproline II over $\beta$ -strand conformation in peptides and unfolded proteins: conditional hydrophobic accessible surface area (CHASA). <i>Protein Science</i> , 2009, 14, 111-118.	3.1	76
26	Rigid domains in proteins: An algorithmic approach to their identification. <i>Proteins: Structure, Function and Bioinformatics</i> , 1995, 23, 38-48.	1.5	71
27	Redrawing the Ramachandran plot after inclusion of hydrogen-bonding constraints. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 109-113.	3.3	71
28	Protein folding: Predicting predicting. <i>Proteins: Structure, Function and Bioinformatics</i> , 1994, 19, 1-3.	1.5	68
29	Molten globular characteristics of the native state of apomyoglobin. <i>Nature Structural and Molecular Biology</i> , 1994, 1, 447-452.	3.6	67
30	How the hydrophobic factor drives protein folding. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 12462-12466.	3.3	67
31	Ab initio prediction of protein structure using LINUS. <i>Proteins: Structure, Function and Bioinformatics</i> , 2002, 47, 489-495.	1.5	66
32	A new algorithm for finding the peptide chain turns in a globular protein. <i>Journal of Molecular Biology</i> , 1977, 113, 153-164.	2.0	60
33	Are proteins made from a limited parts list?. <i>Trends in Biochemical Sciences</i> , 2005, 30, 73-80.	3.7	59
34	Steric restrictions in protein folding: An $\alpha$ -helix cannot be followed by a contiguous $\alpha$ -strand. <i>Protein Science</i> , 2004, 13, 633-639.	3.1	58
35	A Complete Conformational Map for RNA. <i>Journal of Molecular Biology</i> , 1999, 291, 313-327.	2.0	56
36	From The Cover: Building native protein conformation from highly approximate backbone torsion angles. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 16227-16232.	3.3	56

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37	Effects of alanine substitutions in $\alpha$ -helices of sperm whale myoglobin on protein stability. <i>Protein Science</i> , 1993, 2, 1099-1105.	3.1	51
38	A thermodynamic definition of protein domains. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 9420-9425.	3.3	45
39	Identifying two ancient enzymes in Archaea using predicted secondary structure alignment. <i>Nature Structural Biology</i> , 1999, 6, 750-754.	9.7	42
40	Sterics and Solvation Winnow Accessible Conformational Space for Unfolded Proteins. <i>Journal of Molecular Biology</i> , 2005, 353, 873-887.	2.0	42
41	Structures, basins, and energies: A deconstruction of the Protein Coil Library. <i>Protein Science</i> , 2008, 17, 1151-1161.	3.1	42
42	Hydrogen-bonded turns in proteins: The case for a recount. <i>Protein Science</i> , 2005, 14, 2910-2914.	3.1	41
43	Assessing the solvent-dependent surface area of unfolded proteins using an ensemble model. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 3321-3326.	3.3	38
44	RNABase: an annotated database of RNA structures. <i>Nucleic Acids Research</i> , 2003, 31, 502-504.	6.5	37
45	Secondary structure determines protein topology. <i>Protein Science</i> , 2006, 15, 1829-1834.	3.1	35
46	Building native protein conformation from NMR backbone chemical shifts using Monte Carlo fragment assembly. <i>Protein Science</i> , 2007, 16, 1515-1521.	3.1	33
47	Ab Initio Protein Folding Using LINUS. <i>Methods in Enzymology</i> , 2004, 383, 48-66.	0.4	31
48	Protein folding and the Paracelsus challenge. <i>Nature Structural Biology</i> , 1997, 4, 512-514.	9.7	27
49	Protein folding â€œseeing is deceiving. <i>Protein Science</i> , 2021, 30, 1606-1616.	3.1	26
50	Physicalâ€œchemical determinants of turn conformations in globular proteins. <i>Protein Science</i> , 2007, 16, 1720-1727.	3.1	24
51	Counting peptideâ€œwater hydrogen bonds in unfolded proteins. <i>Protein Science</i> , 2011, 20, 417-427.	3.1	19
52	Ramachandran maps for side chains in globular proteins. <i>Proteins: Structure, Function and Bioinformatics</i> , 2019, 87, 357-364.	1.5	18
53	Reframing the Protein Folding Problem: Entropy as Organizer. <i>Biochemistry</i> , 2021, 60, 3753-3761.	1.2	18
54	Does secondary structure determine tertiary structure in proteins?. <i>Proteins: Structure, Function and Bioinformatics</i> , 2005, 61, 338-343.	1.5	17

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55	Physicalâ€œchemical determinants of coil conformations in globular proteins. Protein Science, 2010, 19, 1127-1136.	3.1	13
56	Methinks it is like a folding curve. Biophysical Chemistry, 2002, 101-102, 167-171.	1.5	11
57	Building blocks of protein structures: Physics meets biology. Physical Review E, 2021, 104, 014402.	0.8	10
58	Reducing the dimensionality of the proteinâ€œfolding search problem. Protein Science, 2012, 21, 1231-1240.	3.1	7
59	On interpretation of protein Xâ€œray structures: Planarity of the peptide unit. Proteins: Structure, Function and Bioinformatics, 2015, 83, 1687-1692.	1.5	7
60	Comment on â€œRevisiting the Ramachandran plot from a new angleâ€œ. Protein Science, 2011, 20, 1771-1773.	3.1	4
61	What is life? Part II. Proteins: Structure, Function and Bioinformatics, 2019, 87, 174-175.	1.5	4
62	Perspective. Protein Science, 2001, 10, 1691-1693.	3.1	3
63	THE OPEN-ENDED INTELLECTUAL LEGACY OF GNR. , 2013, , 38-45.		1
64	In memoriam. Proteins: Structure, Function and Bioinformatics, 2009, 75, 535-539.	1.5	0
65	Cover Image, Volume 87, Issue 5. Proteins: Structure, Function and Bioinformatics, 2019, 87, C1.	1.5	0
66	Protein structure prediction â€œ An Ab initio approach. , 2003, , .		0
67	<i>Response</i> : Possible Exceptions to Rules for $\hat{\pm}$ -Helix Termination by Glycine. Science, 1995, 269, 1451-1452.	6.0	0