

# Ronald E Stenkamp

## List of Publications by Citations

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38  
papers

7,765  
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23  
h-index

39  
g-index

39  
ext. papers

8,169  
ext. citations

8.6  
avg, IF

4.93  
L-index

#	Paper	IF	Citations
38	Crystal structure of rhodopsin: A G protein-coupled receptor. <i>Science</i> , <b>2000</b> , 289, 739-45	33.3	5015
37	Advances in determination of a high-resolution three-dimensional structure of rhodopsin, a model of G-protein-coupled receptors (GPCRs). <i>Biochemistry</i> , <b>2001</b> , 40, 7761-72	3.2	597
36	Crystal structure of a photoactivated deprotonated intermediate of rhodopsin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2006</b> , 103, 16123-8	11.5	391
35	Structural basis for mechanical force regulation of the adhesin FimH via finger trap-like beta sheet twisting. <i>Cell</i> , <b>2010</b> , 141, 645-55	56.2	204
34	G protein-coupled receptor rhodopsin: a prospectus. <i>Annual Review of Physiology</i> , <b>2003</b> , 65, 851-79	23.1	202
33	Structural studies of the streptavidin binding loop. <i>Protein Science</i> , <b>1997</b> , 6, 1157-66	6.3	162
32	Transglutaminase factor XIII uses proteinase-like catalytic triad to crosslink macromolecules. <i>Protein Science</i> , <b>1994</b> , 3, 1131-5	6.3	132
31	X-ray structure and designed evolution of an artificial transfer hydrogenase. <i>Angewandte Chemie - International Edition</i> , <b>2008</b> , 47, 1400-4	16.4	125
30	Cooperative hydrogen bond interactions in the streptavidin-biotin system. <i>Protein Science</i> , <b>2006</b> , 15, 459-67	6.3	110
29	Streptavidin-biotin binding energetics. <i>New Biotechnology</i> , <b>1999</b> , 16, 39-44		87
28	Structural studies of binding site tryptophan mutants in the high-affinity streptavidin-biotin complex. <i>Journal of Molecular Biology</i> , <b>1998</b> , 279, 211-21	6.5	70
27	Ser45 plays an important role in managing both the equilibrium and transition state energetics of the streptavidin-biotin system. <i>Protein Science</i> , <b>2000</b> , 9, 878-85	6.3	68
26	Thermodynamic and structural consequences of flexible loop deletion by circular permutation in the streptavidin-biotin system. <i>Protein Science</i> , <b>1998</b> , 7, 848-59	6.3	65
25	Streptavidin and its biotin complex at atomic resolution. <i>Acta Crystallographica Section D: Biological Crystallography</i> , <b>2011</b> , 67, 813-21		62
24	The bacterial fimbrial tip acts as a mechanical force sensor. <i>PLoS Biology</i> , <b>2011</b> , 9, e1000617	9.7	61
23	Improvements in G protein-coupled receptor purification yield light stable rhodopsin crystals. <i>Journal of Structural Biology</i> , <b>2006</b> , 156, 497-504	3.4	48
22	Alternative models for two crystal structures of bovine rhodopsin. <i>Acta Crystallographica Section D: Biological Crystallography</i> , <b>2008</b> , D64, 902-4		46

21	Crystal packing analysis of Rhodopsin crystals. <i>Journal of Structural Biology</i> , <b>2007</b> , 158, 455-62	3.4	40
20	Crystallographic analysis of a full-length streptavidin with its C-terminal polypeptide bound in the biotin binding site. <i>Journal of Molecular Biology</i> , <b>2006</b> , 356, 738-45	6.5	35
19	Simulations of a protein crystal: explicit treatment of crystallization conditions links theory and experiment in the streptavidin-biotin complex. <i>Biochemistry</i> , <b>2008</b> , 47, 12065-77	3.2	32
18	Dynamics of the streptavidin-biotin complex in solution and in its crystal lattice: distinct behavior revealed by molecular simulations. <i>Journal of Physical Chemistry B</i> , <b>2009</b> , 113, 6971-85	3.4	30
17	Rhodopsin: a structural primer for G-protein coupled receptors. <i>Archiv Der Pharmazie</i> , <b>2005</b> , 338, 209-16	4.3	30
16	X-ray crystallographic studies of streptavidin mutants binding to biotin. <i>New Biotechnology</i> , <b>1999</b> , 16, 13-9		26
15	Crystal structure and mutational analysis of the DaaE adhesin of Escherichia coli. <i>Journal of Biological Chemistry</i> , <b>2006</b> , 281, 22367-22377	5.4	23
14	Early mechanistic events in biotin dissociation from streptavidin. <i>Nature Structural Biology</i> , <b>2002</b> , 9, 582-5		23
13	Identifying G protein-coupled receptor dimers from crystal packings. <i>Acta Crystallographica Section D: Structural Biology</i> , <b>2018</b> , 74, 655-670	5.5	13
12	The Evolution of SlyA/RovA Transcription Factors from Repressors to Countersilencers in. <i>MBio</i> , <b>2019</b> , 10,	7.8	12
11	The structure of rice weevil pectin methylesterase. <i>Acta Crystallographica Section F, Structural Biology Communications</i> , <b>2014</b> , 70, 1480-4	1.1	11
10	A distal point mutation in the streptavidin-biotin complex preserves structure but diminishes binding affinity: experimental evidence of electronic polarization effects?. <i>Biochemistry</i> , <b>2010</b> , 49, 4568-70	3.2	9
9	The role of cytochrome P450 BM3 phenylalanine-87 and threonine-268 in binding organic hydroperoxides. <i>Biochimica Et Biophysica Acta - General Subjects</i> , <b>2016</b> , 1860, 669-77	4	7
8	Structure of 3-mercaptopropionic acid dioxygenase with a substrate analog reveals bidentate substrate binding at the iron center. <i>Journal of Biological Chemistry</i> , <b>2021</b> , 296, 100492	5.4	6
7	Structural consequences of cutting a binding loop: two circularly permuted variants of streptavidin. <i>Acta Crystallographica Section D: Biological Crystallography</i> , <b>2013</b> , 69, 968-77		5
6	The high-resolution structure of (+)-epi-biotin bound to streptavidin. <i>Acta Crystallographica Section D: Biological Crystallography</i> , <b>2006</b> , 62, 576-81		5
5	A Streptavidin Binding Site Mutation Yields an Unexpected Result: An Ionized Asp128 Residue Is Not Essential for Strong Biotin Binding. <i>Biochemistry</i> , <b>2016</b> , 55, 5201-3	3.2	5
4	RMSD analysis of structures of the bacterial protein FimH identifies five conformations of its lectin domain. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2020</b> , 88, 593-603	4.2	4

3	Anatomy of a trans-cis peptide transition during least-squares refinement of rubrerythrin. <i>Acta Crystallographica Section D: Biological Crystallography</i> , <b>2005</b> , 61, 1599-602		3
2	Reprint of "Crystal packing analysis of Rhodopsin crystals" [J. Struct. Biol. 158 (2007) 455-462]. <i>Journal of Structural Biology</i> , <b>2007</b> , 159, 253-60	3-4	1
1	Toggle switch residues control allosteric transitions in bacterial adhesins by participating in a concerted repacking of the protein core. <i>PLoS Pathogens</i> , <b>2021</b> , 17, e1009440	7.6	0