

Ronald E Stenkamp

List of Publications by Year in descending order

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38
papers

8,588
citations

257450

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39
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docs citations

39
times ranked

7003
citing authors

#	ARTICLE	IF	CITATIONS
1	Crystal Structure of Rhodopsin: A G Protein-Coupled Receptor. <i>Science</i> , 2000, 289, 739-745.	12.6	5,486
2	Advances in Determination of a High-Resolution Three-Dimensional Structure of Rhodopsin, a Model of G-Protein-Coupled Receptors (GPCRs). <i>Biochemistry</i> , 2001, 40, 7761-7772.	2.5	627
3	Crystal structure of a photoactivated deprotonated intermediate of rhodopsin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 16123-16128.	7.1	431
4	Structural Basis for Mechanical Force Regulation of the Adhesin FimH via Finger Trap-like β Sheet Twisting. <i>Cell</i> , 2010, 141, 645-655.	28.9	239
5	G Protein-Coupled Receptor Rhodopsin: A Prospectus. <i>Annual Review of Physiology</i> , 2003, 65, 851-879.	13.1	237
6	Structural studies of the streptavidin binding loop. <i>Protein Science</i> , 1997, 6, 1157-1166.	7.6	180
7	Transglutaminase factor XIII uses proteinase-like catalytic triad to crosslink macromolecules. <i>Protein Science</i> , 1994, 3, 1131-1135.	7.6	142
8	X-Ray Structure and Designed Evolution of an Artificial Transfer Hydrogenase. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 1400-1404.	13.8	138
9	Cooperative hydrogen bond interactions in the streptavidin-biotin system. <i>Protein Science</i> , 2006, 15, 459-467.	7.6	123
10	Streptavidin-biotin binding energetics. <i>New Biotechnology</i> , 1999, 16, 39-44.	2.7	99
11	Streptavidin and its biotin complex at atomic resolution. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2011, 67, 813-821.	2.5	83
12	Structural studies of binding site tryptophan mutants in the high-affinity streptavidin-biotin complex 1 Edited by I. A. Wilson. <i>Journal of Molecular Biology</i> , 1998, 279, 211-221.	4.2	77
13	Ser45 plays an important role in managing both the equilibrium and transition state energetics of the streptavidin-biotin system. <i>Protein Science</i> , 2000, 9, 878-885.	7.6	75
14	The Bacterial Fimbrial Tip Acts as a Mechanical Force Sensor. <i>PLoS Biology</i> , 2011, 9, e1000617.	5.6	72
15	Thermodynamic and structural consequences of flexible loop deletion by circular permutation in the streptavidin-biotin system. <i>Protein Science</i> , 1998, 7, 848-859.	7.6	70
16	Alternative models for two crystal structures of bovine rhodopsin. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2008, 64, 902-904.	2.5	55
17	Improvements in G protein-coupled receptor purification yield light stable rhodopsin crystals. <i>Journal of Structural Biology</i> , 2006, 156, 497-504.	2.8	52
18	Simulations of a Protein Crystal: Explicit Treatment of Crystallization Conditions Links Theory and Experiment in the Streptavidin-Biotin Complex. <i>Biochemistry</i> , 2008, 47, 12065-12077.	2.5	46

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19	Crystal packing analysis of Rhodopsin crystals. <i>Journal of Structural Biology</i> , 2007, 158, 455-462.	2.8	42
20	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> , 2009, 113, 6971-6985.	2.6	37
21	Crystallographic Analysis of a Full-length Streptavidin with Its C-terminal Polypeptide Bound in the Biotin Binding Site. <i>Journal of Molecular Biology</i> , 2006, 356, 738-745.	4.2	36
22	Rhodopsin: A Structural Primer for G-Protein Coupled Receptors. <i>Archiv Der Pharmazie</i> , 2005, 338, 209-216.	4.1	34
23	X-ray crystallographic studies of streptavidin mutants binding to biotin. <i>New Biotechnology</i> , 1999, 16, 13-19.	2.7	29
24	Early mechanistic events in biotin dissociation from streptavidin. <i>Nature Structural Biology</i> , 2002, 9, 582-5.	9.7	27
25	The Evolution of SlyA/RovA Transcription Factors from Repressors to Countersilencers in <i>Enterobacteriaceae</i> . <i>MBio</i> , 2019, 10, .	4.1	26
26	Crystal Structure and Mutational Analysis of the DaaE Adhesin of <i>Escherichia coli</i> . <i>Journal of Biological Chemistry</i> , 2006, 281, 22367-22377.	3.4	24
27	Identifying G protein-coupled receptor dimers from crystal packings. <i>Acta Crystallographica Section D: Structural Biology</i> , 2018, 74, 655-670.	2.3	18
28	The structure of rice weevil pectin methylesterase. <i>Acta Crystallographica Section F, Structural Biology Communications</i> , 2014, 70, 1480-1484.	0.8	15
29	RMSD analysis of structures of the bacterial protein FimH identifies five conformations of its lectin domain. <i>Proteins: Structure, Function and Bioinformatics</i> , 2020, 88, 593-603.	2.6	12
30	Structure of 3-mercaptopropionic acid dioxygenase with a substrate analog reveals bidentate substrate binding at the iron center. <i>Journal of Biological Chemistry</i> , 2021, 296, 100492.	3.4	12
31	A Distal Point Mutation in the Streptavidin-Biotin Complex Preserves Structure but Diminishes Binding Affinity: Experimental Evidence of Electronic Polarization Effects?. <i>Biochemistry</i> , 2010, 49, 4568-4570.	2.5	9
32	The role of cytochrome P450 BM3 phenylalanine-87 and threonine-268 in binding organic hydroperoxides. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2016, 1860, 669-677.	2.4	8
33	The high-resolution structure of (+)-epi-biotin bound to streptavidin. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2006, 62, 576-581.	2.5	6
34	Structural consequences of cutting a binding loop: two circularly permuted variants of streptavidin. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2013, 69, 968-977.	2.5	6
35	Toggle switch residues control allosteric transitions in bacterial adhesins by participating in a concerted repacking of the protein core. <i>PLoS Pathogens</i> , 2021, 17, e1009440.	4.7	6
36	A Streptavidin Binding Site Mutation Yields an Unexpected Result: An Ionized Asp128 Residue Is Not Essential for Strong Biotin Binding. <i>Biochemistry</i> , 2016, 55, 5201-5203.	2.5	5

#	ARTICLE	IF	CITATIONS
37	Anatomy of atrans \leftrightarrow cispeptide transition during least-squares refinement of rubrerythrin. Acta Crystallographica Section D: Biological Crystallography, 2005, 61, 1599-1602.	2.5	3
38	Reprint of "Crystal packing analysis of Rhodopsin crystals". J. Struct. Biol. 158 (2007) 455-462. Journal of Structural Biology, 2007, 159, 253-260.	2.8	1