

Wesley E Stites

List of Publications by Year in Descending Order

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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.

44
papers

2,938
citations

24
h-index

44
g-index

44
ext. papers

3,051
ext. citations

5
avg, IF

4.82
L-index

#	Paper	IF	Citations
44	The fluorescence detected guanidine hydrochloride equilibrium denaturation of wild-type staphylococcal nuclease does not fit a three-state unfolding model. <i>Biochimie</i> , 2013 , 95, 1386-93	4.6	1
43	The pH dependence of staphylococcal nuclease stability is incompatible with a three-state denaturation model. <i>Biophysical Chemistry</i> , 2013 , 180-181, 86-94	3.5	1
42	Theory of the Protein Equilibrium Population Snapshot by H/D Exchange Electrospray Ionization Mass Spectrometry (PEPS-HDX-ESI-MS) Method used to obtain Protein Folding Energies/Rates and Selected Supporting Experimental Evidence. <i>International Journal of Mass Spectrometry</i> , 2012 , 330-332, 63-70	1.9	7
41	An electrophoretic mobility shift assay for methionine sulfoxide in proteins. <i>Analytical Biochemistry</i> , 2012 , 421, 767-9	3.1	7
40	Thermodynamic principles for the engineering of pH-driven conformational switches and acid insensitive proteins. <i>Biophysical Chemistry</i> , 2011 , 159, 217-26	3.5	12
39	Comparison of Two ESI MS Based H/D Exchange Methods for Extracting Protein Folding Energies. <i>International Journal of Mass Spectrometry</i> , 2009 , 287, 96-104	1.9	7
38	Effects of excluded volume upon protein stability in covalently cross-linked proteins with variable linker lengths. <i>Biochemistry</i> , 2008 , 47, 8804-14	3.2	23
37	Inactivation of thrombomodulin by ionizing radiation in a cell-free system: possible implications for radiation responses in vascular endothelium. <i>Radiation Research</i> , 2008 , 169, 408-16	3.1	15
36	Refinement of noncalorimetric determination of the change in heat capacity, ΔC_p , of protein unfolding and validation across a wide temperature range. <i>Proteins: Structure, Function and Bioinformatics</i> , 2008 , 71, 1607-16	4.2	16
35	High apparent dielectric constant inside a protein reflects structural reorganization coupled to the ionization of an internal Asp. <i>Biophysical Journal</i> , 2007 , 92, 2041-53	2.9	117
34	Thermal denaturations of staphylococcal nuclease wild-type and mutants monitored by fluorescence and circular dichroism are similar: lack of evidence for other than a two state thermal denaturation. <i>Biophysical Chemistry</i> , 2007 , 125, 490-6	3.5	8
33	Does the oxidation of methionine in thrombomodulin contribute to the hypercoaguable state of smokers and diabetics?. <i>Medical Hypotheses</i> , 2007 , 68, 811-21	3.8	11
32	Protein surface hydration mapped by site-specific mutations. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 13979-84	11.5	139
31	Development of an immunoassay for oxidized or unoxidized forms of thrombomodulin. <i>FASEB Journal</i> , 2006 , 20, A1452	0.9	
30	Oxidation of buried cysteines is slow and an insignificant factor in the structural destabilization of staphylococcal nuclease caused by H ₂ O ₂ exposure. <i>Amino Acids</i> , 2004 , 27, 175-81	3.5	2
29	Proteins with simplified hydrophobic cores compared to other packing mutants. <i>Biophysical Chemistry</i> , 2004 , 110, 239-48	3.5	7
28	Replacement of staphylococcal nuclease hydrophobic core residues with those from thermophilic homologues indicates packing is improved in some thermostable proteins. <i>Journal of Molecular Biology</i> , 2004 , 344, 271-80	6.5	22

27	Changes in stability upon charge reversal and neutralization substitution in staphylococcal nuclease are dominated by favorable electrostatic effects. <i>Biochemistry</i> , 2003 , 42, 1118-28	3.2	34
26	Investigation of biological, chemical and physical processes on and in planetary surfaces by laboratory simulation. <i>Planetary and Space Science</i> , 2002 , 50, 821-828	2	13
25	Experimental pK(a) values of buried residues: analysis with continuum methods and role of water penetration. <i>Biophysical Journal</i> , 2002 , 82, 3289-304	2.9	180
24	Comparing the effect on protein stability of methionine oxidation versus mutagenesis: steps toward engineering oxidative resistance in proteins. <i>Protein Engineering, Design and Selection</i> , 2001 , 14, 343-7	1.9	90
23	Energetics of side chain packing in staphylococcal nuclease assessed by systematic double mutant cycles. <i>Biochemistry</i> , 2001 , 40, 14004-11	3.2	38
22	Energetics of side chain packing in staphylococcal nuclease assessed by exchange of valines, isoleucines, and leucines. <i>Biochemistry</i> , 2001 , 40, 13998-4003	3.2	32
21	Packing is a key selection factor in the evolution of protein hydrophobic cores. <i>Biochemistry</i> , 2001 , 40, 15280-9	3.2	64
20	Higher-order packing interactions in triple and quadruple mutants of staphylococcal nuclease. <i>Biochemistry</i> , 2001 , 40, 14012-9	3.2	37
19	Increasing the thermostability of staphylococcal nuclease: implications for the origin of protein thermostability. <i>Journal of Molecular Biology</i> , 2000 , 303, 125-30	6.5	108
18	High apparent dielectric constants in the interior of a protein reflect water penetration. <i>Biophysical Journal</i> , 2000 , 79, 1610-20	2.9	276
17	Stability effects of increasing the hydrophobicity of solvent-exposed side chains in staphylococcal nuclease. <i>Biochemistry</i> , 1998 , 37, 6939-48	3.2	46
16	Application of automated methods for determination of protein conformational stability. <i>Methods in Enzymology</i> , 1998 , 295, 150-70	1.7	13
15	Protein-protein interactions: Interface Structure, Binding Thermodynamics, and Mutational Analysis. <i>Chemical Reviews</i> , 1997 , 97, 1233-1250	68.1	431
14	Experimental measurement of the effective dielectric in the hydrophobic core of a protein. <i>Biophysical Chemistry</i> , 1997 , 64, 211-24	3.5	215
13	The M32L substitution of staphylococcal nuclease: disagreement between theoretical prediction and experimental protein stability. <i>Journal of Molecular Biology</i> , 1996 , 257, 497-9	6.5	24
12	Mustard gas crosslinking of proteins through preferential alkylation of cysteines. <i>The Protein Journal</i> , 1996 , 15, 131-6		28
11	Empirical evaluation of the influence of side chains on the conformational entropy of the polypeptide backbone. <i>Proteins: Structure, Function and Bioinformatics</i> , 1995 , 22, 132-40	4.2	55
10	Chemically crosslinked protein dimers: stability and denaturation effects. <i>Protein Science</i> , 1995 , 4, 2545-58		16

9	Energetic contribution of side chain hydrogen bonding to the stability of staphylococcal nuclease. <i>Biochemistry</i> , 1995 , 34, 13949-60	3.2	80
8	Instrumentation for automated determination of protein stability. <i>Analytical Biochemistry</i> , 1995 , 227, 112-22	3.1	32
7	Evidence for strained interactions between side-chains and the polypeptide backbone. <i>Journal of Molecular Biology</i> , 1994 , 235, 27-32	6.5	57
6	A First-Order Phase Transition Between a Compact Denatured State and a Random Coil State in Staphylococcal Nuclease. <i>NATO ASI Series Series B: Physics</i> , 1994 , 39-47		
5	The phase transition between a compact denatured state and a random coil state in staphylococcal nuclease is first-order. <i>Journal of Molecular Biology</i> , 1993 , 232, 718-24	6.5	56
4	Compact denatured state of a staphylococcal nuclease mutant by guanidinium as determined by resonance energy transfer. <i>Biochemistry</i> , 1992 , 31, 10217-25	3.2	42
3	In a staphylococcal nuclease mutant the side-chain of a lysine replacing valine 66 is fully buried in the hydrophobic core. <i>Journal of Molecular Biology</i> , 1991 , 221, 7-14	6.5	151
2	Contributions of the large hydrophobic amino acids to the stability of staphylococcal nuclease. <i>Biochemistry</i> , 1990 , 29, 8033-41	3.2	370
1	A convenient preparation of derivatives of 3(s)-amino-10(r)-carboxy-1,6-diaza-cyclodeca-2,7-dione the dilactam of L-β-diaminobutyric acid and d-glutamic acid: A turn template. <i>Tetrahedron Letters</i> , 1988 , 29, 5057-5060	2	55