

Walter F Stafford

List of Publications by Year in descending order

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59
papers

3,103
citations

218677

26
h-index

155660

55
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59
all docs

59
docs citations

59
times ranked

2744
citing authors

#	ARTICLE	IF	CITATIONS
1	A Comprehensive Brownian Dynamics Approach for the Determination of Non-ideality Parameters from Analytical Ultracentrifugation. <i>Langmuir</i> , 2019, 35, 11491-11502.	3.5	6
2	Self-association of human beta-galactocerebrosidase: Dependence on pH, salt, and surfactant. <i>PLoS ONE</i> , 2019, 14, e0226618.	2.5	0
3	Characterization of therapeutic antibodies in the presence of human serum proteins by AU-FDS analytical ultracentrifugation. <i>Analytical Biochemistry</i> , 2018, 550, 72-83.	2.4	29
4	AUC measurements of diffusion coefficients of monoclonal antibodies in the presence of human serum proteins. <i>European Biophysics Journal</i> , 2018, 47, 709-722.	2.2	27
5	AUC Sedimentation Velocity Studies of Therapeutic Proteins in Serum. <i>Biophysical Journal</i> , 2017, 112, 199a-200a.	0.5	0
6	Studying polyglutamine aggregation in <i>Caenorhabditis elegans</i> using an analytical ultracentrifuge equipped with fluorescence detection. <i>Protein Science</i> , 2016, 25, 605-617.	7.6	10
7	Sedimentation Velocity. <i>Methods in Enzymology</i> , 2015, 562, 49-80.	1.0	21
8	Interaction of Myosin Phosphatase Target Subunit (MYPT1) with Myosin Phosphatase-RhoA Interacting Protein (MRIP): A Role of Glutamic Acids in the Interaction. <i>PLoS ONE</i> , 2015, 10, e0139875.	2.5	3
9	Simultaneous Analysis of Hydrodynamic and Optical Properties Using Analytical Ultracentrifugation Equipped with Multiwavelength Detection. <i>Analytical Chemistry</i> , 2015, 87, 3396-3403.	6.5	57
10	AUC in Serum using the AVIV-FDS and Sedanal Global Direct Boundary Fitting. <i>Biophysical Journal</i> , 2014, 106, 736a.	0.5	0
11	Specific Charged Residues on the Myosin Heavy Chain (K368 and R406) Contribute to Head Interaction of Relaxed Smooth Muscle Myosin. <i>Biophysical Journal</i> , 2013, 104, 452a.	0.5	0
12	Noncanonical Role of the PDZ4 Domain of the Adaptor Protein PDZK1 in the Regulation of the Hepatic High Density Lipoprotein Receptor Scavenger Receptor Class B, Type I (SR-BI). <i>Journal of Biological Chemistry</i> , 2013, 288, 19845-19860.	3.4	14
13	Equilibrium self-association of tropomyosin. <i>FEBS Letters</i> , 2012, 586, 3840-3842.	2.8	2
14	Characterization of the Self-Association of Human Interferon- β , Albinterferon- β , and Pegasys. <i>Journal of Pharmaceutical Sciences</i> , 2012, 101, 68-80.	3.3	18
15	The use of analytical sedimentation velocity to extract thermodynamic linkage. <i>Biophysical Chemistry</i> , 2011, 159, 120-128.	2.8	25
16	The Kinetic Mechanism of Mouse Myosin VIIA. <i>Journal of Biological Chemistry</i> , 2011, 286, 8819-8828.	3.4	21
17	SEDFVIEW, Real-time Sedimentation Analysis. <i>Macromolecular Bioscience</i> , 2010, 10, 731-735.	4.1	21
18	Hydrodynamic and mass spectrometry analysis of nearly-intact human fibrinogen, chicken fibrinogen, and of a substantially monodisperse human fibrinogen fragment X. <i>Archives of Biochemistry and Biophysics</i> , 2010, 493, 157-168.	3.0	23

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19	Phosphorylation Dependence of Hsp27 Multimeric Size and Molecular Chaperone Function. <i>Journal of Biological Chemistry</i> , 2009, 284, 18801-18807.	3.4	118
20	Effect of Kinetics on Sedimentation Velocity Profiles and the Role of Intermediates. <i>Methods in Enzymology</i> , 2009, 467, 135-161.	1.0	9
21	Chapter 15 Extracting Equilibrium Constants from Kinetically Limited Reacting Systems. <i>Methods in Enzymology</i> , 2009, 455, 419-446.	1.0	30
22	Evidence for the Oligomeric State of α -Elasticin™ Titin in Muscle Sarcomeres. <i>Journal of Molecular Biology</i> , 2008, 384, 299-312.	4.2	17
23	Avidity-Mediated Enhancement of In vivo Tumor Targeting by Single-Chain Fv Dimers. <i>Clinical Cancer Research</i> , 2006, 12, 1599-1605.	7.0	91
24	The Endoplasmic Reticulum Luminal Domain of the Adenovirus Type 2 E3-19K Protein Binds to Peptide-Filled and Peptide-Deficient HLA-A*1101 Molecules. <i>Journal of Virology</i> , 2005, 79, 13317-13325.	3.4	13
25	Identification of a Region of Fast Skeletal Troponin T Required for Stabilization of the Coiled-coil Formation with Troponin I. <i>Journal of Biological Chemistry</i> , 2005, 280, 538-547.	3.4	10
26	The Predicted Coiled-coil Domain of Myosin 10 Forms a Novel Elongated Domain That Lengthens the Head. <i>Journal of Biological Chemistry</i> , 2005, 280, 34702-34708.	3.4	139
27	Mammalian Class I Myosin, Myo1b, Is Monomeric and Cross-Links Actin Filaments as Determined by Hydrodynamic Studies and Electron Microscopy. <i>Biophysical Journal</i> , 2005, 88, 384-391.	0.5	31
28	Regulated Conformation of Myosin V. <i>Journal of Biological Chemistry</i> , 2004, 279, 2333-2336.	3.4	150
29	ERp57 Is a Multifunctional Thiol-Disulfide Oxidoreductase. <i>Journal of Biological Chemistry</i> , 2004, 279, 18277-18287.	3.4	169
30	Spinning with Dave: David Yphantis's contributions to ultracentrifugation. <i>Biophysical Chemistry</i> , 2004, 108, 23-42.	2.8	1
31	Sedimentation velocity, multi-speed method for analyzing polydisperse solutions. <i>Biophysical Chemistry</i> , 2004, 108, 273-279.	2.8	50
32	Analysis of heterologous interacting systems by sedimentation velocity: curve fitting algorithms for estimation of sedimentation coefficients, equilibrium and kinetic constants. <i>Biophysical Chemistry</i> , 2004, 108, 231-243.	2.8	246
33	Mutational Analysis of the Energetics of the GrpE-DnaK Binding Interface: Equilibrium Association Constants by Sedimentation Velocity Analytical Ultracentrifugation. <i>Journal of Molecular Biology</i> , 2004, 339, 447-458.	4.2	17
34	Two distinct myosin light chain structures are induced by specific variations within the bound IQ motifs—functional implications. <i>EMBO Journal</i> , 2003, 22, 362-371.	7.8	71
35	Circadian clock protein KaiC forms ATP-dependent hexameric rings and binds DNA. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 17203-17208.	7.1	136
36	A Structure-based Interpretation of E.coli GrpE Thermodynamic Properties. <i>Journal of Molecular Biology</i> , 2002, 323, 131-142.	4.2	38

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37	Recombinant Small Subunit of Smooth Muscle Myosin Light Chain Phosphatase. <i>Journal of Biological Chemistry</i> , 2001, 276, 34318-34322.	3.4	13
38	Analysis of reversibly interacting macromolecular systems by time derivative sedimentation velocity. <i>Methods in Enzymology</i> , 2000, 323, 302-325.	1.0	44
39	Measurement of protein interaction bioenergetics: Application to structural variants of anti-sCD4 antibody. <i>Methods in Enzymology</i> , 2000, 323, 207-230.	1.0	16
40	Calcium regulation in the human myocardium affected by dilated cardiomyopathy: a structural basis for impaired Ca ²⁺ -sensitivity. <i>Molecular and Cellular Biochemistry</i> , 1999, 194, 301-313.	3.1	15
41	Calponin Interaction with $\hat{I}\pm$ -Actinin-Actin: Evidence for a Structural Role for Calponin. <i>Biophysical Journal</i> , 1999, 77, 3208-3217.	0.5	43
42	Ca ²⁺ and Zn ²⁺ bind to different sites and induce different conformational changes in human calyculin. <i>FEBS Journal</i> , 1998, 253, 57-66.	0.2	29
43	A Hinge at the Central Helix of the Regulatory Light Chain of Myosin Is Critical for Phosphorylation-dependent Regulation of Smooth Muscle Myosin Motor Activity. <i>Journal of Biological Chemistry</i> , 1998, 273, 17702-17707.	3.4	51
44	Antibodies Capable of Releasing Diphtheria Toxin in Response to the Low pH Found in Endosomes. <i>Journal of Biological Chemistry</i> , 1997, 272, 27618-27622.	3.4	2
45	Structure, Subunit Topology, and Actin-binding Activity of the Arp2/3 Complex from <i>Acanthamoeba</i> . <i>Journal of Cell Biology</i> , 1997, 136, 331-343.	5.2	211
46	Bacteriophage P22 scaffolding protein forms oligomers in solution. <i>Journal of Molecular Biology</i> , 1997, 268, 655-665.	4.2	49
47	Sedimentation velocity spins a new weave for an old fabric. <i>Current Opinion in Biotechnology</i> , 1997, 8, 14-24.	6.6	69
48	Complexes of myosin subfragment-1 with adenosine diphosphate and phosphate analogs: probes of active site and protein conformation. <i>Biophysical Chemistry</i> , 1996, 59, 341-349.	2.8	23
49	New high sensitivity sedimentation methods: Application to the analysis of the assembly of bacteriophage P22. <i>Techniques in Protein Chemistry</i> , 1995, 6, 427-432.	0.3	3
50	Engineering disulfide-linked single-chain Fv dimers [(sFv') ₂] with improved solution and targeting properties: anti-digoxin 26â€“10 (sFv') ₂ and anti-c-erbB-2 741F8 (sFv') ₂ made by protein folding and bonded through C-terminal cysteinyl peptides. <i>Protein Engineering, Design and Selection</i> , 1995, 8, 301-314.	2.1	42
51	Physical Characterization of Calponin. <i>Journal of Biological Chemistry</i> , 1995, 270, 10576-10579.	3.4	38
52	[22] Boundary analysis in sedimentation velocity experiments. <i>Methods in Enzymology</i> , 1994, 240, 478-501.	1.0	110
53	Functional effects of LC1-reassociation with cardiac papain Mg \hat{i} ₂ ^{1/2} S1. <i>Journal of Muscle Research and Cell Motility</i> , 1993, 14, 3-14.	2.0	13
54	Boundary analysis in sedimentation transport experiments: A procedure for obtaining sedimentation coefficient distributions using the time derivative of the concentration profile. <i>Analytical Biochemistry</i> , 1992, 203, 295-301.	2.4	572

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55	Caldesmon from rabbit liver: Molecular weight and length by analytical ultracentrifugation. Archives of Biochemistry and Biophysics, 1990, 281, 66-69.	3.0	17
56	RecA Protein self-assembly. Journal of Molecular Biology, 1990, 216, 949-964.	4.2	48
57	Isolation and Partial Characterization of Dermatan Sulfate Proteoglycans from Human Post-Burn Scar Tissues. Collagen and Related Research, 1988, 8, 295-313.	2.0	17
58	An externally adjustable motor-driven Rayleigh slit assembly for the analytical ultracentrifuge. Analytical Biochemistry, 1978, 88, 104-108.	2.4	9
59	Existence and inhibition of hydrolytic enzymes attacking paramyosin in myofibrillar extracts of Mercenaria, mercenaria. Biochemical and Biophysical Research Communications, 1972, 49, 848-854.	2.1	56