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 g-index
59 all docs	59 docs citations	59 times ranked	2744 citing authors

#	Article	IF	Citations
1	Boundary analysis in sedimentation transport experiments: A procedure for obtaining sedimentation coefficient distributions using the time derivative of the concentration profile. Analytical Biochemistry, 1992, 203, 295-301.	2.4	572
2	Analysis of heterologous interacting systems by sedimentation velocity: curve fitting algorithms for estimation of sedimentation coefficients, equilibrium and kinetic constants. Biophysical Chemistry, 2004, 108, 231-243.	2.8	246
3	Structure, Subunit Topology, and Actin-binding Activity of the Arp2/3 Complex from Acanthamoeba. Journal of Cell Biology, 1997, 136, 331-343.	5.2	211
4	ERp57 Is a Multifunctional Thiol-Disulfide Oxidoreductase. Journal of Biological Chemistry, 2004, 279, 18277-18287.	3.4	169
5	Regulated Conformation of Myosin V. Journal of Biological Chemistry, 2004, 279, 2333-2336.	3.4	150
6	The Predicted Coiled-coil Domain of Myosin 10 Forms a Novel Elongated Domain That Lengthens the Head. Journal of Biological Chemistry, 2005, 280, 34702-34708.	3.4	139
7	Circadian clock protein KaiC forms ATP-dependent hexameric rings and binds DNA. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 17203-17208.	7.1	136
8	Phosphorylation Dependence of Hsp27 Multimeric Size and Molecular Chaperone Function. Journal of Biological Chemistry, 2009, 284, 18801-18807.	3.4	118
9	[22] Boundary analysis in sedimentation velocity experiments. Methods in Enzymology, 1994, 240, 478-501.	1.0	110
10	Avidity-Mediated Enhancement of In vivo Tumor Targeting by Single-Chain Fv Dimers. Clinical Cancer Research, 2006, 12, 1599-1605.	7.0	91
11	Two distinct myosin light chain structures are induced by specific variations within the bound IQ motifs--functional implications. EMBO Journal, 2003, 22, 362-371.	7.8	71
12	Sedimentation velocity spins a new weave for an old fabric. Current Opinion in Biotechnology, 1997, 8, 14-24.	6.6	69
13	Simultaneous Analysis of Hydrodynamic and Optical Properties Using Analytical Ultracentrifugation Equipped with Multiwavelength Detection. Analytical Chemistry, 2015, 87, 3396-3403.	6.5	57
14	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
15	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. Journal of Biological Chemistry, 1998, 273, 17702-17707.	3.4	51
16	Sedimentation velocity, multi-speed method for analyzing polydisperse solutions. Biophysical Chemistry, 2004, 108, 273-279.	2.8	50
17	Bacteriophage P22 scaffolding protein forms oligomers in solution. Journal of Molecular Biology, 1997, 268, 655-665.	4.2	49
18	RecA Protein self-assembly. Journal of Molecular Biology, 1990, 216, 949-964.	4.2	48

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19	Analysis of reversibly interacting macromolecular systems by time derivative sedimentation velocity. Methods in Enzymology, 2000, 323, 302-325.	1.0	44
20	Calponin Interaction with Î±-Actinin-Actin: Evidence for a Structural Role for Calponin. Biophysical Journal, 1999, 77, 3208-3217.	0.5	43
21	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. Protein Engineering, Design and Selection, 1995, 8, 301-314.	2.1	42
22	Physical Characterization of Calponin. Journal of Biological Chemistry, 1995, 270, 10576-10579.	3.4	38
23	A Structure-based Interpretation of E.coli GrpE Thermodynamic Properties. Journal of Molecular Biology, 2002, 323, 131-142.	4.2	38
24	Mammalian Class I Myosin, Myo1b, Is Monomeric and Cross-Links Actin Filaments as Determined by Hydrodynamic Studies and Electron Microscopy. Biophysical Journal, 2005, 88, 384-391.	0.5	31
25	Chapter 15 Extracting Equilibrium Constants from Kinetically Limited Reacting Systems. Methods in Enzymology, 2009, 455, 419-446.	1.0	30
26	Ca2+ and Zn2+ bind to different sites and induce different conformational changes in human calcyclin. FEBS Journal, 1998, 253, 57-66.	0.2	29
27	Characterization of therapeutic antibodies in the presence of human serum proteins by AU-FDS analytical ultracentrifugation. Analytical Biochemistry, 2018, 550, 72-83.	2.4	29
28	AUC measurements of diffusion coefficients of monoclonal antibodies in the presence of human serum proteins. European Biophysics Journal, 2018, 47, 709-722.	2.2	27
29	The use of analytical sedimentation velocity to extract thermodynamic linkage. Biophysical Chemistry, 2011, 159, 120-128.	2.8	25
30	Complexes of myosin subfragment-1 with adenosine diphosphate and phosphate analogs: probes of active site and protein conformation. Biophysical Chemistry, 1996, 59, 341-349.	2.8	23
31	Hydrodynamic and mass spectrometry analysis of nearly-intact human fibrinogen, chicken fibrinogen, and of a substantially monodisperse human fibrinogen fragment X. Archives of Biochemistry and Biophysics, 2010, 493, 157-168.	3.0	23
32	SEDVIEW, Realâ€time Sedimentation Analysis. Macromolecular Bioscience, 2010, 10, 731-735.	4.1	21
33	The Kinetic Mechanism of Mouse Myosin VIIA. Journal of Biological Chemistry, 2011, 286, 8819-8828.	3.4	21
34	Sedimentation Velocity. Methods in Enzymology, 2015, 562, 49-80.	1.0	21
35	Characterization of the Self-Association of Human Interferon-Î±2b, Albinterferon-Î±2b, and Pegasys. Journal of Pharmaceutical Sciences, 2012, 101, 68-80.	3.3	18
36	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

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37	Caldesmon from rabbit liver: Molecular weight and length by analytical ultracentrifugation. Archives of Biochemistry and Biophysics, 1990, 281, 66-69.	3.0	17
38	Mutational Analysis of the Energetics of the GrpEÂ·DnaK Binding Interface: Equilibrium Association Constants by Sedimentation Velocity Analytical Ultracentrifugation. Journal of Molecular Biology, 2004, 339, 447-458.	4.2	17
39	Evidence for the Oligomeric State of â€˜Elasticâ€™ Titin in Muscle Sarcomeres. Journal of Molecular Biology, 2008, 384, 299-312.	4.2	17
40	Measurement of protein interaction bioenergetics: Application to structural variants of anti-sCD4 antibody. Methods in Enzymology, 2000, 323, 207-230.	1.0	16
41	Calcium regulation in the human myocardium affected by dilated cardiomyopathy: a structural basis for impaired Ca2+-sensitivity. Molecular and Cellular Biochemistry, 1999, 194, 301-313.	3.1	15
42	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). Journal of Biological Chemistry, 2013, 288, 19845-19860.	3.4	14
43	Functional effects of LC1-reassociation with cardiac papain Mg ï¿½ S1. Journal of Muscle Research and Cell Motility, 1993, 14, 3-14.	2.0	13
44	Recombinant Small Subunit of Smooth Muscle Myosin Light Chain Phosphatase. Journal of Biological Chemistry, 2001, 276, 34318-34322.	3.4	13
45	The Endoplasmic Reticulum Lumenal Domain of the Adenovirus Type 2 E3-19K Protein Binds to Peptide-Filled and Peptide-Deficient HLA-A*1101 Molecules. Journal of Virology, 2005, 79, 13317-13325.	3.4	13
46	Identification of a Region of Fast Skeletal Troponin T Required for Stabilization of the Coiled-coil Formation with Troponin I. Journal of Biological Chemistry, 2005, 280, 538-547.	3.4	10
47	Studying polyglutamine aggregation in Caenorhabditis elegans using an analytical ultracentrifuge equipped with fluorescence detection. Protein Science, 2016, 25, 605-617.	7.6	10
48	An externally adjustable motor-driven Rayleigh slit assembly for the analytical ultracentrifuge. Analytical Biochemistry, 1978, 88, 104-108.	2.4	9
49	Effect of Kinetics on Sedimentation Velocity Profiles and the Role of Intermediates. Methods in Enzymology, 2009, 467, 135-161.	1.0	9
50	A Comprehensive Brownian Dynamics Approach for the Determination of Non-ideality Parameters from Analytical Ultracentrifugation. Langmuir, 2019, 35, 11491-11502.	3.5	6
51	New high sensitivity sedimentation methods: Application to the analysis of the assembly of bacteriophage P22. Techniques in Protein Chemistry, 1995, 6, 427-432.	0.3	3
52	Interaction of Myosin Phosphatase Target Subunit (MYPT1) with Myosin Phosphatase-RhoA Interacting Protein (MRIP): A Role of Glutamic Acids in the Interaction. PLoS ONE, 2015, 10, e0139875.	2.5	3
53	Antibodies Capable of Releasing Diphtheria Toxin in Response to the Low pH Found in Endosomes. Journal of Biological Chemistry, 1997, 272, 27618-27622.	3.4	2
54	Equilibrium selfâ€association of tropomyosin. FEBS Letters, 2012, 586, 3840-3842.	2.8	2

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55	Spinning with Dave: David Yphantis's contributions to ultracentrifugation. Biophysical Chemistry, 2004, 108, 23-42.	2.8	1
56	Specific Charged Residues on the Myosin Heavy Chain (K368 and R406) Contribute to Head Interaction of Relaxed Smooth Muscle Myosin. Biophysical Journal, 2013, 104, 452a.	0.5	0
57	AUC in Serum using the AVIV-FDS and Sedanal Global Direct Boundary Fitting. Biophysical Journal, 2014, 106, 736a.	0.5	0
58	AUC Sedimentation Velocity Studies of Therapeutic Proteins in Serum. Biophysical Journal, 2017, 112, 199a-200a.	0.5	0
59	Self-association of human beta-galactocerebrosidase: Dependence on pH, salt, and surfactant. PLoS ONE, 2019, 14, e0226618.	2.5	0