David D Thomas

List of Publications by Year
in descending order

281 papers	10,490 citations	38720 50 h-index	71651 76 g-index
304 all docs	304 docs citations	304 times ranked	7039 citing authors

#	Article	IF	Citations
1	Rotational diffusion studied by passage saturation transfer electron paramagnetic resonance. Journal of Chemical Physics, 1976, 65, 3006-3024.	1.2	410
2	Orientation of spin labels attached to cross-bridges in contracting muscle fibres. Nature, 1982, 300, 776-778.	13.7	259
3	Mutation and Phosphorylation Change the Oligomeric Structure of Phospholamban in Lipid Bilayers. Biochemistry, 1997, 36, 2960-2967.	1.2	179
4	Cofilin Increases the Torsional Flexibility and Dynamics of Actin Filaments. Journal of Molecular Biology, 2005, 353, 990-1000.	2.0	143
5	NMR Solution Structure and Topological Orientation of Monomeric Phospholamban in Dodecylphosphocholine Micelles. Biophysical Journal, 2003, 85, 2589-2598.	0.2	140
6	Rotational dynamics of spin-labeled F-actin in the sub-millisecond time range. Journal of Molecular Biology, 1979, 132, 257-273.	2.0	137
7	A Fluorescence Energy Transfer Method for Analyzing Protein Oligomeric Structure: Application to Phospholamban. Biophysical Journal, 1999, 76, 2587-2599.	0.2	136
8	Electron paramagnetic resonance reveals age-related myosin structural changes in rat skeletal muscle fibers. American Journal of Physiology - Cell Physiology, 2001, 280, C540-C547.	2.1	123
9	Phospholamban structural dynamics in lipid bilayers probed by a spin label rigidly coupled to the peptide backbone. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 14437-14442.	3.3	110
10	Mavacamten stabilizes an autoinhibited state of two-headed cardiac myosin. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E7486-E7494.	3.3	109
11	Mapping the interaction surface of a membrane protein: Unveiling the conformational switch of phospholamban in calcium pump regulation. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 4747-4752.	3.3	101
12	Phosphorylation-dependent Conformational Switch in Spin-labeled Phospholamban Bound to SERCA. Journal of Molecular Biology, 2006, 358, 1032-1040.	2.0	101
13	Spectroscopic validation of the pentameric structure of phospholamban. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 14676-14681.	3.3	101
14	Depolymerization of Phospholamban in the Presence of Calcium Pump: A Fluorescence Energy Transfer Studyâ€. Biochemistry, 1999, 38, 3954-3962.	1.2	98
15	Cooperativity in F-Actin: Binding of Gelsolin at the Barbed End Affects Structure and Dynamics of the Whole Filament. Journal of Molecular Biology, 1996, 260, 756-766.	2.0	95
16	Functional, structural, and chemical changes in myosin associated with hydrogen peroxide treatment of skeletal muscle fibers. American Journal of Physiology - Cell Physiology, 2008, 294, C613-C626.	2.1	92
17	Effects of Membrane Thickness on the Molecular Dynamics and Enzymic Activity of Reconstituted Ca-ATPase. Biochemistry, 1994, 33, 2912-2920.	1.2	91
18	Oxidation of ryanodine receptor (RyR) and calmodulin enhance Ca release and pathologically alter, RyR structure and calmodulin affinity. Journal of Molecular and Cellular Cardiology, 2015, 85, 240-248.	0.9	91

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19	Discovery of Enzyme Modulators via High-Throughput Time-Resolved FRET in Living Cells. Journal of Biomolecular Screening, 2014, 19, 215-222.	2.6	88
20	Temperature dependence of the rotational dynamics of protein and lipid in sarcoplasmic reticulum membranes. Biochemistry, 1986, 25, 194-202.	1.2	85
21	Calculation of paramagnetic resonance spectra sensitive to very slow rotational motion. Chemical Physics Letters, 1974, 25, 470-475.	1.2	84
22	Microsecond rotational motions of eosin-labeled myosin measured by time-resolved anisotropy of absorption and phosphorescence. Journal of Molecular Biology, 1984, 179, 55-81.	2.0	84
23	Structure and Orientation of Sarcolipin in Lipid Environments,. Biochemistry, 2002, 41, 475-482.	1.2	83
24	Endoplasmic reticulum protein BI-1 regulates Ca²⁺-mediated bioenergetics to promote autophagy. Genes and Development, 2012, 26, 1041-1054.	2.7	83
25	Photoacoustic lifetime contrast between methylene blue monomers and self-quenched dimers as a model for dual-labeled activatable probes. Journal of Biomedical Optics, 2013, 18, 056004.	1.4	83
26	Direct real-time detection of the structural and biochemical events in the myosin power stroke. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 14272-14277.	3.3	81
27	Overexpression, purification, and characterization of recombinant Ca-ATPase regulators for high-resolution solution and solid-state NMR studies. Protein Expression and Purification, 2003, 30, 253-261.	0.6	79
28	Heart failure drug changes the mechanoenzymology of the cardiac myosin powerstroke. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E1796-E1804.	3.3	76
29	Force generation, but not myosin ATPase activity, declines with age in rat muscle fibers. American Journal of Physiology - Cell Physiology, 2002, 283, C187-C192.	2.1	75
30	Phosphorylation-induced structural changes in smooth muscle myosin regulatory light chain. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 8207-8212.	3.3	74
31	High-Throughput FRET Assay Yields Allosteric SERCA Activators. Journal of Biomolecular Screening, 2013, 18, 97-107.	2.6	74
32	Direct Detection of Phospholamban and Sarcoplasmic Reticulum Ca-ATPase Interaction in Membranes Using Fluorescence Resonance Energy Transferâ€. Biochemistry, 2004, 43, 8754-8765.	1.2	73
33	Synthetic Null-Cysteine Phospholamban Analogue and the Corresponding Transmembrane Domain Inhibit the Ca-ATPase. Biochemistry, 2000, 39, 10892-10897.	1.2	70
34	Solid-State NMR and Rigid Body Molecular Dynamics To Determine Domain Orientations of Monomeric Phospholamban. Journal of the American Chemical Society, 2002, 124, 9392-9393.	6.6	70
35	Structural Dynamics of Actin during Active Interaction with Myosin:â€‰ Different Effects of Weakly and Strongly Bound Myosin Heads. Biochemistry, 2004, 43, 10642-10652.	1.2	70
36	1H/15N Heteronuclear NMR Spectroscopy Shows Four Dynamic Domains for Phospholamban Reconstituted in Dodecylphosphocholine Micelles. Biophysical Journal, 2004, 87, 1205-1214.	0.2	70

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37	Tumor Necrosis Factor-related Apoptosis-inducing Ligand (TRAIL) Induces Death Receptor 5 Networks That Are Highly Organized. Journal of Biological Chemistry, 2012, 287, 21265-21278.	1.6	70
38	Rotational dynamics of the calcium ATPase in sarcoplasmic reticulum studied by time-resolved phosphorescence anisotropy. Biochemistry, 1990, 29, 3904-3914.	1.2	69
39	Molecular Dynamics Simulations Reveal a Disorder-to-Order Transition on Phosphorylation of Smooth Muscle Myosin. Biophysical Journal, 2007, 93, 2083-2090.	0.2	64
40	Sarcolipin, the Shorter Homologue of Phospholamban, Forms Oligomeric Structures in Detergent Micelles and in Liposomes. Journal of Biological Chemistry, 2001, 276, 30845-30852.	1.6	62
41	A dynamic mechanism for allosteric activation of Aurora kinase A by activation loop phosphorylation. ELife, 2018, 7, .	2.8	62
42	Foì¨rster Transfer Recovery Reveals That Phospholamban Exchanges Slowly From Pentamers but Rapidly From the SERCA Regulatory Complex. Circulation Research, 2007, 101, 1123-1129.	2.0	61
43	Defining the Molecular Components of Calcium Transport Regulation in a Reconstituted Membrane System. Biochemistry, 2003, 42, 4585-4592.	1.2	60
44	Microsecond Rotational Dynamics of Actin: Spectroscopic Detection and Theoretical Simulation. Journal of Molecular Biology, 1996, 255, 446-457.	2.0	59
45	High-Throughput Spectral and Lifetime-Based FRET Screening in Living Cells to Identify Small-Molecule Effectors of SERCA. SLAS Discovery, 2017, 22, 262-273.	1.4	58
46	Temporal sequence of major biochemical events during blood bank storage of packed red blood cells. Blood Transfusion, 2012, 10, 453-61.	0.3	58
47	Thermodynamic and Structural Basis of Phosphorylation-Induced Disorder-to-Order Transition in the Regulatory Light Chain of Smooth Muscle Myosin. Journal of the American Chemical Society, 2008, 130, 12208-12209.	6.6	57
48	Effects of melittin on molecular dynamics and calcium-ATPase activity in sarcoplasmic reticulum membranes: time-resolved optical anisotropy. Biochemistry, 1991, 30, 7498-7506.	1.2	56
49	Phospholamban Pentamer Quaternary Conformation Determined by In-Gel Fluorescence Anisotropyâ€,â€¡. Biochemistry, 2005, 44, 4302-4311.	1.2	56
50	Controlling the Inhibition of the Sarcoplasmic Ca2+-ATPase by Tuning Phospholamban Structural Dynamics. Journal of Biological Chemistry, 2007, 282, 37205-37214.	1.6	55
51	High-performance time-resolved fluorescence by direct waveform recording. Review of Scientific Instruments, 2010, 81, 103101.	0.6	55
52	FRET-based mapping of calmodulin bound to the RyR1 Ca2+ release channel. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 6128-6133.	3.3	54
53	Oxidation increases the strength of the methionine-aromatic interaction. Nature Chemical Biology, 2016, 12, 860-866.	3.9	53
54	Structural basis for high-affinity actin binding revealed by a Î²-III-spectrin SCA5 missense mutation. Nature Communications, 2017, 8, 1350.	5.8	53

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55	Targeting the ensemble of heterogeneous tau oligomers in cells: A novel small molecule screening platform for tauopathies. Alzheimer's and Dementia, 2019, 15, 1489-1502.	0.4	53
56	Rotational dynamics of actin-bound myosin heads in active myofibrils. Biochemistry, 1993, 32, 3812-3821.	1.2	52
57	Direct real-time detection of the actin-activated power stroke within the myosin catalytic domain. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 7211-7216.	3.3	52
58	Quantitative conformational profiling of kinase inhibitors reveals origins of selectivity for Aurora kinase activation states. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E11894-E11903.	3.3	52
59	Resolution of conformational states of spin-labeled myosin during steady-state ATP hydrolysis. Biochemistry, 1987, 26, 314-323.	1.2	51
60	Cysteine Reactivity and Oligomeric Structures of Phospholamban and Its Mutantsâ€. Biochemistry, 1998, 37, 12074-12081.	1.2	51
61	Age-related decline in actomyosin structure and function. Experimental Gerontology, 2007, 42, 931-938.	1.2	51
62	Structural dynamics of the myosin relay helix by time-resolved EPR and FRET. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 21625-21630.	3.3	51
63	High-Throughput Screens to Discover Small-Molecule Modulators of Ryanodine Receptor Calcium Release Channels. SLAS Discovery, 2017, 22, 176-186.	1.4	51
64	Conformational transitions in the calcium adenosine triphosphatase studied by time-resolved fluorescence resonance energy transfer. Biochemistry, 1989, 28, 3940-3947.	1.2	50
65	Effect of ADP on the orientation of spin-labeled myosin heads in muscle fibers: a high-resolution study with deuterated spin labels. Biochemistry, 1990, 29, 5865-5871.	1.2	50
66	Defining the Intramembrane Binding Mechanism of Sarcolipin to Calcium ATPase Using Solution NMR Spectroscopy. Journal of Molecular Biology, 2006, 358, 420-429.	2.0	50
67	Atomic-Level Characterization of the Activation Mechanism of SERCA by Calcium. PLoS ONE, 2011, 6, e26936.	1.1	50
68	Perturbations of Functional Interactions with Myosin Induce Long-Range Allosteric and Cooperative Structural Changes in Actin. Biochemistry, 1997, 36, 12845-12853.	1.2	48
69	Electron Paramagnetic Resonance Reveals a Large-Scale Conformational Change in the Cytoplasmic Domain of Phospholamban upon Binding to the Sarcoplasmic Reticulum Ca-ATPase. Biochemistry, 2004, 43, 5842-5852.	1.2	48
70	Microsecond rotational dynamics of phosphorescent-labeled muscle cross-bridges. Biochemistry, 1988, 27, 3343-3351.	1.2	47
71	Effects of melittin on molecular dynamics and calcium ATPase activity in sarcoplasmic reticulum membranes: electron paramagnetic resonance. Biochemistry, 1991, 30, 7171-7180.	1.2	47
72	Dual Mechanisms of sHA 14-1 in Inducing Cell Death through Endoplasmic Reticulum and Mitochondria. Molecular Pharmacology, 2009, 76, 667-678.	1.0	47

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73	Lipid-Mediated Folding/Unfolding of Phospholamban as a Regulatory Mechanism for the Sarcoplasmic Reticulum Ca2+-ATPase. Journal of Molecular Biology, 2011, 408, 755-765.	2.0	47
74	Site-directed spectroscopy of cardiac myosin-binding protein C reveals effects of phosphorylation on protein structural dynamics. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 3233-3238.	3.3	47
75	Targeting protein-protein interactions for therapeutic discovery via FRET-based high-throughput screening in living cells. Scientific Reports, 2018, 8, 12560.	1.6	47
76	Site-Directed Spectroscopic Probes of Actomyosin Structural Dynamics. Annual Review of Biophysics, 2009, 38, 347-369.	4.5	46
77	Structural kinetics of myosin by transient time-resolved FRET. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 1891-1896.	3.3	46
78	Direct measurements of the coordination of lever arm swing and the catalytic cycle in myosin V. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 14593-14598.	3.3	46
79	Mechanochemical Coupling in Spin-Labeled, Active, Isometric Muscle. Biophysical Journal, 1999, 77, 2657-2664.	0.2	45
80	Molecular Dynamics Simulation of Site-Directed Spin Labeling: Experimental Validation in Muscle Fibers. Biophysical Journal, 2002, 83, 1854-1866.	0.2	45
81	Effects of Ser16 Phosphorylation on the Allosteric Transitions of Phospholamban/Ca2+-ATPase Complex. Journal of Molecular Biology, 2006, 358, 1041-1050.	2.0	45
82	Mapping the Ryanodine Receptor FK506-binding Protein Subunit Using Fluorescence Resonance Energy Transfer. Journal of Biological Chemistry, 2010, 285, 19219-19226.	1.6	45
83	Phosphorylated Phospholamban Stabilizes a Compact Conformation ofÂthe Cardiac Calcium-ATPase. Biophysical Journal, 2013, 105, 1812-1821.	0.2	45
84	An Innovative High-Throughput Screening Approach for Discovery of Small Molecules That Inhibit TNF Receptors. SLAS Discovery, 2017, 22, 950-961.	1.4	45
85	Synthesis of TOAC spin-labeled proteins and reconstitution in lipid membranes. Nature Protocols, 2007, 2, 42-49.	5.5	44
86	Actin-binding cleft closure in myosin II probed by site-directed spin labeling and pulsed EPR. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 12867-12872.	3.3	44
87	Molecular mechanism of calcium-ATPase activation by halothane in sarcoplasmic reticulum. Biochemistry, 1993, 32, 7503-7511.	1.2	42
88	Direct Spectroscopic Detection of Molecular Dynamics and Interactions of the Calcium Pump and Phospholamban a. Annals of the New York Academy of Sciences, 1998, 853, 186-194.	1.8	42
89	Calmodulin Oxidation and Methionine to Glutamine Substitutions Reveal Methionine Residues Critical for Functional Interaction with Ryanodine Receptor-1. Journal of Biological Chemistry, 2003, 278, 15615-15621.	1.6	42
90	Site-directed spin labeling reveals a conformational switch in the phosphorylation domain of smooth muscle myosin. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 4000-4005.	3.3	42

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91	Age-Related Decline in Actomyosin Function. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2005, 60, 425-431.	1.7	42
92	Rotational Dynamics of Phospholamban Determined by Multifrequency Electron Paramagnetic Resonance. Biophysical Journal, 2007, 93, 2805-2812.	0.2	42
93	Changes in Band 3 oligomeric state precede cell membrane phospholipid loss during blood bank storage of red blood cells. Transfusion, 2009, 49, 1435-1442.	0.8	42
94	Myosin Isoform Determines the Conformational Dynamics and Cooperativity of Actin Filaments in the Strongly Bound Actomyosin Complex. Journal of Molecular Biology, 2010, 396, 501-509.	2.0	42
95	Oligomeric Interactions of Sarcolipin and the Ca-ATPase. Journal of Biological Chemistry, 2011, 286, 31697-31706.	1.6	42
96	Time-resolved rotational dynamics of phosphorescent-labeled myosin heads in contracting muscle fibers. Biochemistry, 1990, 29, 10023-10031.	1.2	40
97	Halothane and Cyclopiazonic Acid Modulate Ca-ATPase Oligomeric State and Function in Sarcoplasmic Reticulum. Biochemistry, 1994, 33, 13928-13937.	1.2	40
98	Interdomain Fluorescence Resonance Energy Transfer in SERCA Probed by Cyan-Fluorescent Protein Fused to the Actuator Domain. Biochemistry, 2008, 47, 4246-4256.	1.2	40
99	Dystrophin and utrophin have distinct effects on the structural dynamics of actin. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 7822-7827.	3.3	40
100	Noncompetitive inhibitors of TNFR1 probe conformational activation states. Science Signaling, 2019, 12, .	1.6	40
101	2-Color Calcium Pump Reveals Closure of the Cytoplasmic Headpiece with Calcium Binding. PLoS ONE, 2012, 7, e40369.	1.1	40
102	Microsecond Molecular Dynamics Simulations of Mg2+- and K+- Bound E1 Intermediate States of the Calcium Pump. PLoS ONE, 2014, 9, e95979.	1.1	39
103	Time-resolved FRET reveals the structural mechanism of SERCAâ€“PLB regulation. Biochemical and Biophysical Research Communications, 2014, 449, 196-201.	1.0	39
104	The structural kinetics of switch-1 and the neck linker explain the functions of kinesin-1 and Eg5. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E6606-13.	3.3	39
105	Sarcolipin Promotes Uncoupling of the SERCA Ca²⁺ Pump by Inducing a Structural Rearrangement in the Energy-Transduction Domain. Biochemistry, 2016, 55, 6083-6086.	1.2	39
106	Red-Shifted FRET Biosensors for High-Throughput Fluorescence Lifetime Screening. Biosensors, 2018, 8, 99.	2.3	39
107	Co-reconstitution of Phospholamban Mutants with the Ca-ATPase Reveals Dependence of Inhibitory Function on Phospholamban Structure. Journal of Biological Chemistry, 1999, 274, 7649-7655.	1.6	38
108	The Î±-Helical Propensity of the Cytoplasmic Domain of Phospholamban: A Molecular Dynamics Simulation of the Effect of Phosphorylation and Mutation. Biophysical Journal, 2005, 88, 3243-3251.	0.2	38

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109	Site-Specific Methionine Oxidation Initiates Calmodulin Degradation by the 20S Proteasome. Biochemistry, 2009, 48, 3005-3016.	1.2	38
110	On the Function of Pentameric Phospholamban: Ion Channel or Storage Form?. Biophysical Journal, 2009, 96, L60-L62.	0.2	38
111	Structural and Functional Dynamics of an Integral Membrane Protein Complex Modulated by Lipid Headgroup Charge. Journal of Molecular Biology, 2012, 418, 379-389.	2.0	38
112	Fluorescence lifetime plate reader: Resolution and precision meet high-throughput. Review of Scientific Instruments, 2014, 85, 113101.	0.6	38
113	Conformational Transitions of the Sarcoplasmic Reticulum Ca-ATPase Studied by Time-Resolved EPR and Quenched-Flow Kinetics. Biochemistry, 1995, 34, 4864-4879.	1.2	37
114	A thermodynamic muscle model and a chemical basis for A.V. Hill's muscle equation. , 2000, 21, 335-344.		37
115	Muscle activity and aging affect myosin structural distribution and force generation in rat fibers. Journal of Applied Physiology, 2004, 96, 498-506.	1.2	36
116	An Electrochemical Investigation of Sarcolipin Reconstituted into a Mercury-Supported Lipid Bilayer. Biophysical Journal, 2007, 93, 2678-2687.	0.2	36
117	Changes in Actin Structural Transitions Associated with Oxidative Inhibition of Muscle Contraction. Biochemistry, 2008, 47, 11811-11817.	1.2	36
118	Large-scale opening of utrophinâ€™s tandem calponin homology (CH) domains upon actin binding by an induced-fit mechanism. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 12729-12733.	3.3	36
119	Transient detection of spin-labeled myosin subfragment 1 conformational states during ATP hydrolysis. Biochemistry, 1993, 32, 6712-6720.	1.2	35
120	Role of Cysteine Residues in Structural Stability and Function of a Transmembrane Helix Bundle. Journal of Biological Chemistry, 2001, 276, 38814-38819.	1.6	35
121	Atomic-Level Mechanisms for Phospholamban Regulation of the Calcium Pump. Biophysical Journal, 2015, 108, 1697-1708.	0.2	35
122	Phosphomimetic S3D cofilin binds but only weakly severs actin filaments. Journal of Biological Chemistry, 2017, 292, 19565-19579.	1.6	35
123	Generalized limits to the number of light particle degrees of freedom from big bang nucleosynthesis. Astroparticle Physics, 1999, 11, 403-411.	1.9	33
124	Hexanol and Lidocaine Affect the Oligomeric State of the Ca-ATPase of Sarcoplasmic Reticulum. Biochemistry, 1994, 33, 13208-13222.	1.2	32
125	Microsecond Rotational Dynamics of Spin-Labeled Myosin Regulatory Light Chain Induced by Relaxation and Contraction of Scallop Muscleâ€. Biochemistry, 1998, 37, 14428-14436.	1.2	32
126	Structure and function of integral membrane protein domains resolved by peptide-amphiphiles: Application to phospholamban. Biopolymers, 2003, 69, 283-292.	1.2	32

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127	Actin-Myosin Interaction: Structure, Function and Drug Discovery. International Journal of Molecular Sciences, 2018, 19, 2628.	1.8	32
128	Protein-Protein Interactions in Calcium Transport Regulation Probed by Saturation Transfer Electron Paramagnetic Resonance. Biophysical Journal, 2012, 103, 1370-1378.	0.2	31
129	Sarcolipin and phospholamban inhibit the calcium pump by populating a similar metal ion-free intermediate state. Biochemical and Biophysical Research Communications, 2015, 463, 37-41.	1.0	31
130	Î²-III-spectrin spinocerebellar ataxia type 5 mutation reveals a dominant cytoskeletal mechanism that underlies dendritic arborization. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E9376-E9385.	3.3	30
131	RyR1-targeted drug discovery pipeline integrating FRET-based high-throughput screening and human myofiber dynamic Ca2+ assays. Scientific Reports, 2020, 10, 1791.	1.6	30
132	Complex Kinetic Behavior in the Na,K-and Ca-ATPases. Evidence for Subunit-Subunit Interactions and Energy Conservation during Catalysis. Annals of the New York Academy of Sciences, 1997, 834, 280-296.	1.8	29
133	Phosphorylation-Induced Structural Change in Phospholamban and Its Mutants, Detected by Intrinsic Fluorescenceâ€. Biochemistry, 1998, 37, 7869-7877.	1.2	29
134	Enhanced EPR Sensitivity from a Ferroelectric Cavity Insert. Journal of Magnetic Resonance, 2001, 153, 7-14.	1.2	29
135	A Novel SERCA Inhibitor Demonstrates Synergy with Classic SERCA Inhibitors and Targets Multidrug-Resistant AML. Molecular Pharmaceutics, 2013, 10, 4358-4366.	2.3	29
136	Amplitude of the actomyosin power stroke depends strongly on the isoform of the myosin essential light chain. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 4660-4665.	3.3	29
137	Direct detection of the myosin super-relaxed state and interacting-heads motif in solution. Journal of Biological Chemistry, 2021, 297, 101157.	1.6	29
138	Mechanical factors tune the sensitivity of mdx muscle to eccentric strength loss and its protection by antioxidant and calcium modulators. Skeletal Muscle, 2020, 10, 3.	1.9	29
139	Protein and lipid rotational dynamics in cardiac and skeletal sarcoplasmic reticulum detected by EPR and phosphorescence anisotropy. Biochemistry, 1993, 32, 9445-9453.	1.2	28
140	Nucleotide Activation of the Ca-ATPase. Journal of Biological Chemistry, 2012, 287, 39070-39082.	1.6	28
141	Impact of methionine oxidation on calmodulin structural dynamics. Biochemical and Biophysical Research Communications, 2015, 456, 567-572.	1.0	28
142	Spectral Unmixing Plate Reader: High-Throughput, High-Precision FRET Assays in Living Cells. SLAS Discovery, 2017, 22, 250-261.	1.4	28
143	Differences in Structural Dynamics of Muscle and Yeast Actin Accompany Differences in Functional Interactions with Myosinâ€. Biochemistry, 1999, 38, 14860-14867.	1.2	27
144	Molecular and cellular contractile dysfunction of dystrophic muscle from young mice. Muscle and Nerve, 2006, 34, 92-100.	1.0	27

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145	Protein structural dynamics revealed by site-directed spin labeling and multifrequency EPR. Biophysical Reviews, 2010, 2, 91-99.	1.5	27
146	S100A1 Protein Does Not Compete with Calmodulin for Ryanodine Receptor Binding but Structurally Alters the Ryanodine ReceptorÂ·Calmodulin Complex. Journal of Biological Chemistry, 2016, 291, 15896-15907.	1.6	27
147	Rotational dynamics of actin-bound intermediates in the myosin ATPase cycle. Biochemistry, 1991, 30, 11036-11045.	1.2	26
148	Mechanism of Ca-ATPase Inhibition by Melittin in Skeletal Sarcoplasmic Reticulum. Biochemistry, 1995, 34, 930-939.	1.2	26
149	Structural Dynamics of the Actinâ€“Myosin Interface by Site-directed Spectroscopy. Journal of Molecular Biology, 2006, 356, 1107-1117.	2.0	26
150	Muscle and nonmuscle myosins probed by a spin label at equivalent sites in the force-generating domain. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 13397-13402.	3.3	26
151	Functional and physical competition between phospholamban and its mutants provides insight into the molecular mechanism of gene therapy for heart failure. Biochemical and Biophysical Research Communications, 2011, 408, 388-392.	1.0	26
152	Phospholamban mutants compete with wild type for SERCA binding in living cells. Biochemical and Biophysical Research Communications, 2012, 420, 236-240.	1.0	26
153	Loop L5 Assumes Three Distinct Orientations during the ATPase Cycle of the Mitotic Kinesin Eg5. Journal of Biological Chemistry, 2013, 288, 34839-34849.	1.6	26
154	Orientation and rotational mobility of spin-labelled myosin heads in insect flight muscle in rigor. Journal of Muscle Research and Cell Motility, 1983, 4, 367-378.	0.9	25
155	Site-Specific Mutations in the Myosin Binding Sites of Actin Affect Structural Transitions That Control Myosin Binding. Biochemistry, 2001, 40, 13933-13940.	1.2	25
156	Methane Monooxygenase Hydroxylase and B Component Interactionsâ€. Biochemistry, 2006, 45, 2913-2926.	1.2	25
157	Structure and Dynamics of the Force-Generating Domain of Myosin Probed by Multifrequency Electron Paramagnetic Resonance. Biophysical Journal, 2008, 95, 247-256.	0.2	25
158	A human Î²-III-spectrin spinocerebellar ataxia type 5 mutation causes high-affinity F-actin binding. Scientific Reports, 2016, 6, 21375.	1.6	25
159	Functional and transcriptomic insights into pathogenesis of R9C phospholamban mutation using human induced pluripotent stem cell-derived cardiomyocytes. Journal of Molecular and Cellular Cardiology, 2018, 119, 147-154.	0.9	25
160	Structural Dynamics of the Actomyosin Complex Probed by a Bifunctional Spin Label that Cross-Links SH1 and SH2. Biophysical Journal, 2008, 95, 5238-5246.	0.2	24
161	Impacts of Dystrophin and Utrophin Domains on Actin Structural Dynamics: Implications for Therapeutic Design. Journal of Molecular Biology, 2012, 420, 87-98.	2.0	24
162	A posttranslational modification of the mitotic kinesin Eg5 that enhances its mechanochemical coupling and alters its mitotic function. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E1779-E1788.	3.3	24

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163	Changes in Actin and Myosin Structural Dynamics Due to Their Weak and Strong Interactions. Results and Problems in Cell Differentiation, 2002, 36, 7-19.	0.2	24
164	Myosin Light-Chain Domain Rotates upon Muscle Activation but Not ATP Hydrolysisâ€. Biochemistry, 1999, 38, 12607-12613.	1.2	23
165	SERCA Structural Dynamics Induced by ATP and Calcium. Biochemistry, 2004, 43, 12846-12854.	1.2	23
166	Cardiac myosin binding protein-C restricts intrafilament torsional dynamics of actin in a phosphorylation-dependent manner. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 20437-20442.	3.3	23
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