

# David D Thomas

## 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.

281  
papers

8,773  
citations

48  
h-index

72  
g-index

304  
ext. papers

9,785  
ext. citations

5.1  
avg, IF

6.06  
L-index

#	Paper	IF	Citations
281	Cardiac ryanodine receptor N-terminal region biosensors identify novel inhibitors via FRET-based high-throughput screening. <i>Journal of Biological Chemistry</i> , <b>2021</b> , 101412	5.4	1
280	Defective internal allosteric network imparts dysfunctional ATP/substrate-binding cooperativity in oncogenic chimera of protein kinase A. <i>Communications Biology</i> , <b>2021</b> , 4, 321	6.7	10
279	Structural basis for allosteric control of the SERCA-Phospholamban membrane complex by Ca and phosphorylation. <i>ELife</i> , <b>2021</b> , 10,	8.9	3
278	Potent inhibitors of toxic alpha-synuclein identified via cellular time-resolved FRET biosensors. <i>Npj Parkinsons Disease</i> , <b>2021</b> , 7, 52	9.7	6
277	Cardiac myosin-binding protein C interaction with actin is inhibited by compounds identified in a high-throughput fluorescence lifetime screen. <i>Journal of Biological Chemistry</i> , <b>2021</b> , 297, 100840	5.4	2
276	Novel drug discovery platform for spinocerebellar ataxia, using fluorescence technology targeting $\beta$ -III-spectrin. <i>Journal of Biological Chemistry</i> , <b>2021</b> , 296, 100215	5.4	1
275	Mechanistic analysis of actin-binding compounds that affect the kinetics of cardiac myosin-actin interaction. <i>Journal of Biological Chemistry</i> , <b>2021</b> , 296, 100471	5.4	2
274	Allostery governs Cdk2 activation and differential recognition of CDK inhibitors. <i>Nature Chemical Biology</i> , <b>2021</b> , 17, 456-464	11.7	6
273	Integrated Phosphoproteomics for Identifying Substrates of Human Protein Kinase A ( $\alpha$ ) and Its Oncogenic Mutant 1. <i>Journal of Proteome Research</i> , <b>2021</b> , 20, 4815-4830	5.6	0
272	Direct detection of the myosin super-relaxed state and interacting-heads motif in solution. <i>Journal of Biological Chemistry</i> , <b>2021</b> , 297, 101157	5.4	6
271	The transmembrane peptide DWORF activates SERCA2a via dual mechanisms. <i>Journal of Biological Chemistry</i> , <b>2021</b> , 296, 100412	5.4	9
270	Fluorescence-Based TNFR1 Biosensor for Monitoring Receptor Structural and Conformational Dynamics and Discovery of Small Molecule Modulators. <i>Methods in Molecular Biology</i> , <b>2021</b> , 2248, 121-137	11.4	3
269	Live-Cell Cardiac-Specific High-Throughput Screening Platform for Drug-Like Molecules that Enhance Ca Transport. <i>Cells</i> , <b>2020</b> , 9,	7.9	6
268	Discovery of Small Molecule Inhibitors of Huntingtin Exon 1 Aggregation by FRET-Based High-Throughput Screening in Living Cells. <i>ACS Chemical Neuroscience</i> , <b>2020</b> , 11, 2286-2295	5.7	7
267	RyR1-targeted drug discovery pipeline integrating FRET-based high-throughput screening and human myofiber dynamic Ca assays. <i>Scientific Reports</i> , <b>2020</b> , 10, 1791	4.9	14
266	Resolved Structural States of Calmodulin in Regulation of Skeletal Muscle Calcium Release. <i>Biophysical Journal</i> , <b>2020</b> , 118, 1090-1100	2.9	4
265	Super-relaxed state of myosin in human skeletal muscle is fiber-type dependent. <i>American Journal of Physiology - Cell Physiology</i> , <b>2020</b> , 319, C1158-C1162	5.4	4

264	Mechanical factors tune the sensitivity of mdx muscle to eccentric strength loss and its protection by antioxidant and calcium modulators. <i>Skeletal Muscle</i> , <b>2020</b> , 10, 3	5.1	16
263	Multi-state recognition pathway of the intrinsically disordered protein kinase inhibitor by protein kinase A. <i>ELife</i> , <b>2020</b> , 9,	8.9	11
262	Purification of sarcoplasmic reticulum vesicles from horse gluteal muscle. <i>Analytical Biochemistry</i> , <b>2020</b> , 610, 113965	3.1	0
261	FRET and optical trapping reveal mechanisms of actin activation of the power stroke and phosphate release in myosin V. <i>Journal of Biological Chemistry</i> , <b>2020</b> , 295, 17383-17397	5.4	6
260	Viral expression of a SERCA2a-activating PLB mutant improves calcium cycling and synchronicity in dilated cardiomyopathic hiPSC-CMs. <i>Journal of Molecular and Cellular Cardiology</i> , <b>2020</b> , 138, 59-65	5.8	9
259	The functional significance of redox-mediated intersubunit cross-linking in regulation of human type 2 ryanodine receptor. <i>Redox Biology</i> , <b>2020</b> , 37, 101729	11.3	5
258	Sarcomere integrated biosensor detects myofilament-activating ligands in real time during twitch contractions in live cardiac muscle. <i>Journal of Molecular and Cellular Cardiology</i> , <b>2020</b> , 147, 49-61	5.8	5
257	Actin-binding compounds, previously discovered by FRET-based high-throughput screening, differentially affect skeletal and cardiac muscle. <i>Journal of Biological Chemistry</i> , <b>2020</b> , 295, 14100-14110	5.4	3
256	Met125 is essential for maintaining the structural integrity of calmodulin's C-terminal domain. <i>Scientific Reports</i> , <b>2020</b> , 10, 21320	4.9	1
255	Myosin lever arm orientation in muscle determined with high angular resolution using bifunctional spin labels. <i>Journal of General Physiology</i> , <b>2019</b> , 151, 1007-1016	3.4	4
254	Coding sequences of sarcoplasmic reticulum calcium ATPase regulatory peptides and expression of calcium regulatory genes in recurrent exertional rhabdomyolysis. <i>Journal of Veterinary Internal Medicine</i> , <b>2019</b> , 33, 933-941	3.1	5
253	Noncompetitive inhibitors of TNFR1 probe conformational activation states. <i>Science Signaling</i> , <b>2019</b> , 12,	8.8	25
252	Atomistic Models from Orientation and Distance Constraints Using EPR of a Bifunctional Spin Label. <i>Biophysical Journal</i> , <b>2019</b> , 117, 319-330	2.9	
251	Trajectory-Based Simulation of EPR Spectra: Models of Rotational Motion for Spin Labels on Proteins. <i>Journal of Physical Chemistry B</i> , <b>2019</b> , 123, 10131-10141	3.4	9
250	Targeting the ensemble of heterogeneous tau oligomers in cells: A novel small molecule screening platform for tauopathies. <i>Alzheimer's and Dementia</i> , <b>2019</b> , 15, 1489-1502	1.2	30
249	Converter domain mutations in myosin alter structural kinetics and motor function. <i>Journal of Biological Chemistry</i> , <b>2019</b> , 294, 1554-1567	5.4	12
248	Effects of the Arg9Cys and Arg25Cys mutations on phospholamban's conformational equilibrium in membrane bilayers. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>2018</b> , 1860, 1335-1341	3.8	9
247	A posttranslational modification of the mitotic kinesin Eg5 that enhances its mechanochemical coupling and alters its mitotic function. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, E1779-E1788	11.5	9

246	Structural Impact of Phosphorylation and Dielectric Constant Variation on Synaptotagmin $\beta$ IDR. <i>Biophysical Journal</i> , <b>2018</b> , 114, 550-561	2.9	8
245	Impaired muscle relaxation and mitochondrial fission associated with genetic ablation of cytoplasmic actin isoforms. <i>FEBS Journal</i> , <b>2018</b> , 285, 481-500	5.7	5
244	Structural dynamics of calmodulin-ryanodine receptor interactions: electron paramagnetic resonance using stereospecific spin labels. <i>Scientific Reports</i> , <b>2018</b> , 8, 10681	4.9	8
243	Dynamics of Dystrophin $\beta$ Actin-Binding Domain. <i>Biophysical Journal</i> , <b>2018</b> , 115, 445-454	2.9	6
242	Mavacamten stabilizes an autoinhibited state of two-headed cardiac myosin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, E7486-E7494	11.5	51
241	Functional and transcriptomic insights into pathogenesis of R9C phospholamban mutation using human induced pluripotent stem cell-derived cardiomyocytes. <i>Journal of Molecular and Cellular Cardiology</i> , <b>2018</b> , 119, 147-154	5.8	16
240	Targeting protein-protein interactions for therapeutic discovery via FRET-based high-throughput screening in living cells. <i>Scientific Reports</i> , <b>2018</b> , 8, 12560	4.9	28
239	High-throughput screen, using time-resolved FRET, yields actin-binding compounds that modulate actin-myosin structure and function. <i>Journal of Biological Chemistry</i> , <b>2018</b> , 293, 12288-12298	5.4	11
238	Effect of Phosphorylation on Interactions between Transmembrane Domains of SERCA and Phospholamban. <i>Biophysical Journal</i> , <b>2018</b> , 114, 2573-2583	2.9	14
237	Quantitative conformational profiling of kinase inhibitors reveals origins of selectivity for Aurora kinase activation states. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, E11894-E11903	11.5	30
236	Red-Shifted FRET Biosensors for High-Throughput Fluorescence Lifetime Screening. <i>Biosensors</i> , <b>2018</b> , 8,	5.9	21
235	Age affects myosin relaxation states in skeletal muscle fibers of female but not male mice. <i>PLoS ONE</i> , <b>2018</b> , 13, e0199062	3.7	9
234	Actin-Myosin Interaction: Structure, Function and Drug Discovery. <i>International Journal of Molecular Sciences</i> , <b>2018</b> , 19,	6.3	19
233	A dynamic mechanism for allosteric activation of Aurora kinase A by activation loop phosphorylation. <i>ELife</i> , <b>2018</b> , 7,	8.9	43
232	Heart failure drug changes the mechanoenzymology of the cardiac myosin powerstroke. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2017</b> , 114, E1796-E1804	11.5	46
231	High-Throughput Spectral and Lifetime-Based FRET Screening in Living Cells to Identify Small-Molecule Effectors of SERCA. <i>SLAS Discovery</i> , <b>2017</b> , 22, 262-273	3.4	37
230	An Innovative High-Throughput Screening Approach for Discovery of Small Molecules That Inhibit TNF Receptors. <i>SLAS Discovery</i> , <b>2017</b> , 22, 950-961	3.4	29
229	Phosphomimetic S3D cofilin binds but only weakly severs actin filaments. <i>Journal of Biological Chemistry</i> , <b>2017</b> , 292, 19565-19579	5.4	20

228	βIII-spectrin spinocerebellar ataxia type 5 mutation reveals a dominant cytoskeletal mechanism that underlies dendritic arborization. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2017</b> , 114, E9376-E9385	11.5	16
227	Soluble Extracellular Domain of Death Receptor 5 Inhibits TRAIL-Induced Apoptosis by Disrupting Receptor-Receptor Interactions. <i>Journal of Molecular Biology</i> , <b>2017</b> , 429, 2943-2953	6.5	12
226	Enhanced synaptotagmin plasticity derived from pairing intrinsic disorder with synaptic vesicle lipids. <i>Communicative and Integrative Biology</i> , <b>2017</b> , 10, e1343772	1.7	78
225	Structural basis for high-affinity actin binding revealed by a βIII-spectrin SCA5 missense mutation. <i>Nature Communications</i> , <b>2017</b> , 8, 1350	17.4	27
224	A Cardiomyopathy Mutation in the Myosin Essential Light Chain Alters Actomyosin Structure. <i>Biophysical Journal</i> , <b>2017</b> , 113, 91-100	2.9	14
223	High-Throughput Screens to Discover Small-Molecule Modulators of Ryanodine Receptor Calcium Release Channels. <i>SLAS Discovery</i> , <b>2017</b> , 22, 176-186	3.4	31
222	Spectral Unmixing Plate Reader: High-Throughput, High-Precision FRET Assays in Living Cells. <i>SLAS Discovery</i> , <b>2017</b> , 22, 250-261	3.4	14
221	Oxidation increases the strength of the methionine-aromatic interaction. <i>Nature Chemical Biology</i> , <b>2016</b> , 12, 860-6	11.7	43
220	A Novel Fluorescence Resonance Energy Transfer-Based Screen in High-Throughput Format To Identify Inhibitors of Malarial and Human Glucose Transporters. <i>Antimicrobial Agents and Chemotherapy</i> , <b>2016</b> , 60, 7407-7414	5.9	10
219	Direct detection of SERCA calcium transport and small-molecule inhibition in giant unilamellar vesicles. <i>Biochemical and Biophysical Research Communications</i> , <b>2016</b> , 481, 206-211	3.4	8
218	Site-directed spectroscopy of cardiac myosin-binding protein C reveals effects of phosphorylation on protein structural dynamics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, 3233-8	11.5	30
217	A bifunctional spin label reports the structural topology of phospholamban in magnetically-aligned bicelles. <i>Journal of Magnetic Resonance</i> , <b>2016</b> , 262, 50-56	3	10
216	Calcium Stimulates Self-Assembly of Protein Kinase C In Vitro. <i>PLoS ONE</i> , <b>2016</b> , 11, e0162331	3.7	9
215	Molecular Modeling of Fluorescent SERCA Biosensors. <i>Methods in Molecular Biology</i> , <b>2016</b> , 1377, 503-22	1.4	2
214	S100A1 Protein Does Not Compete with Calmodulin for Ryanodine Receptor Binding but Structurally Alters the Ryanodine Receptor-Calmodulin Complex. <i>Journal of Biological Chemistry</i> , <b>2016</b> , 291, 15896-907	5.4	14
213	A human βIII-spectrin spinocerebellar ataxia type 5 mutation causes high-affinity F-actin binding. <i>Scientific Reports</i> , <b>2016</b> , 6, 21375	4.9	13
212	Calcium-Dependent Structural Dynamics of a Spin-Labeled RyR Peptide Bound to Calmodulin. <i>Biophysical Journal</i> , <b>2016</b> , 111, 2387-2394	2.9	5
211	Sarcoplipin Promotes Uncoupling of the SERCA Ca Pump by Inducing a Structural Rearrangement in the Energy-Transduction Domain. <i>Biochemistry</i> , <b>2016</b> , 55, 6083-6086	3.2	25

210	Oxidation of ryanodine receptor (RyR) and calmodulin enhance Ca release and pathologically alter RyR structure and calmodulin affinity. <i>Journal of Molecular and Cellular Cardiology</i> , <b>2015</b> , 85, 240-8	5.8	69
209	High-resolution helix orientation in actin-bound myosin determined with a bifunctional spin label. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, 7972-7	11.5	11
208	Atomic-level mechanisms for phospholamban regulation of the calcium pump. <i>Biophysical Journal</i> , <b>2015</b> , 108, 1697-1708	2.9	24
207	Amplitude of the actomyosin power stroke depends strongly on the isoform of the myosin essential light chain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, 4660-5	11.5	21
206	The structural kinetics of switch-1 and the neck linker explain the functions of kinesin-1 and Eg5. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, E6606-13	11.5	29
205	The myosin super-relaxed state is disrupted by estradiol deficiency. <i>Biochemical and Biophysical Research Communications</i> , <b>2015</b> , 456, 151-5	3.4	19
204	Optimization of bicelle lipid composition and temperature for EPR spectroscopy of aligned membranes. <i>Journal of Magnetic Resonance</i> , <b>2015</b> , 250, 71-75	3	7
203	Structural Mechanism for Regulation of Bcl-2 protein Noxa by phosphorylation. <i>Scientific Reports</i> , <b>2015</b> , 5, 14557	4.9	6
202	ATP-Binding Cassette Transporter Structure Changes Detected by Intramolecular Fluorescence Energy Transfer for High-Throughput Screening. <i>Molecular Pharmacology</i> , <b>2015</b> , 88, 84-94	4.3	15
201	Sarcoplipin and phospholamban inhibit the calcium pump by populating a similar metal ion-free intermediate state. <i>Biochemical and Biophysical Research Communications</i> , <b>2015</b> , 463, 37-41	3.4	21
200	Sequential myosin phosphorylation activates tarantula thick filament via a disorder-order transition. <i>Molecular BioSystems</i> , <b>2015</b> , 11, 2167-79		15
199	Tarantula myosin free head regulatory light chain phosphorylation stiffens N-terminal extension, releasing it and blocking its docking back. <i>Molecular BioSystems</i> , <b>2015</b> , 11, 2180-9		19
198	Direct real-time detection of the structural and biochemical events in the myosin power stroke. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, 14272-7	11.5	58
197	Direct measurements of the coordination of lever arm swing and the catalytic cycle in myosin V. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, 14593-8	11.5	28
196	Bifunctional Spin Labeling of Muscle Proteins: Accurate Rotational Dynamics, Orientation, and Distance by EPR. <i>Methods in Enzymology</i> , <b>2015</b> , 564, 101-23	1.7	8
195	Impact of methionine oxidation on calmodulin structural dynamics. <i>Biochemical and Biophysical Research Communications</i> , <b>2015</b> , 456, 567-72	3.4	22
194	Phospholamban phosphorylation, mutation, and structural dynamics: a biophysical approach to understanding and treating cardiomyopathy. <i>Biophysical Reviews</i> , <b>2015</b> , 7, 63-76	3.7	11
193	Open and closed conformations of the isolated transmembrane domain of death receptor 5 support a new model of activation. <i>Biophysical Journal</i> , <b>2014</b> , 106, L21-4	2.9	15



192	Discovery of enzyme modulators via high-throughput time-resolved FRET in living cells. <i>Journal of Biomolecular Screening</i> , <b>2014</b> , 19, 215-22		60
191	FRET-based trilateration of probes bound within functional ryanodine receptors. <i>Biophysical Journal</i> , <b>2014</b> , 107, 2037-48	2.9	9
190	Effects of pseudophosphorylation mutants on the structural dynamics of smooth muscle myosin regulatory light chain. <i>Molecular BioSystems</i> , <b>2014</b> , 10, 2693-8		15
189	Structural mapping of divergent regions in the type 1 ryanodine receptor using fluorescence resonance energy transfer. <i>Structure</i> , <b>2014</b> , 22, 1322-1332	5.2	4
188	Time-resolved FRET reveals the structural mechanism of SERCA-PLB regulation. <i>Biochemical and Biophysical Research Communications</i> , <b>2014</b> , 449, 196-201	3.4	29
187	Microsecond molecular dynamics simulations of Mg <sup>2+</sup> - and K <sup>+</sup> -bound E1 intermediate states of the calcium pump. <i>PLoS ONE</i> , <b>2014</b> , 9, e95979	3.7	29
186	Fluorescence lifetime plate reader: resolution and precision meet high-throughput. <i>Review of Scientific Instruments</i> , <b>2014</b> , 85, 113101	1.7	33
185	Redox-sensitive residue in the actin-binding interface of myosin. <i>Biochemical and Biophysical Research Communications</i> , <b>2014</b> , 453, 345-9	3.4	16
184	Electron paramagnetic resonance resolves effects of oxidative stress on muscle proteins. <i>Exercise and Sport Sciences Reviews</i> , <b>2014</b> , 42, 30-6	6.7	11
183	Synthetic phosphopeptides enable quantitation of the content and function of the four phosphorylation states of phospholamban in cardiac muscle. <i>Journal of Biological Chemistry</i> , <b>2014</b> , 289, 29397-405	5.4	8
182	Photoacoustic lifetime contrast between methylene blue monomers and self-quenched dimers as a model for dual-labeled activatable probes. <i>Journal of Biomedical Optics</i> , <b>2013</b> , 18, 56004	3.5	65
181	Phosphorylated phospholamban stabilizes a compact conformation of the cardiac calcium-ATPase. <i>Biophysical Journal</i> , <b>2013</b> , 105, 1812-21	2.9	33
180	A novel SERCA inhibitor demonstrates synergy with classic SERCA inhibitors and targets multidrug-resistant AML. <i>Molecular Pharmaceutics</i> , <b>2013</b> , 10, 4358-66	5.6	23
179	Mutation that causes hypertrophic cardiomyopathy increases force production in human $\beta$ -cardiac myosin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, 12507-8	11.5	15
178	Loop L5 assumes three distinct orientations during the ATPase cycle of the mitotic kinesin Eg5: a transient and time-resolved fluorescence study. <i>Journal of Biological Chemistry</i> , <b>2013</b> , 288, 34839-49	5.4	18
177	The structural dynamics of actin during active interaction with myosin depends on the isoform of the essential light chain. <i>Biochemistry</i> , <b>2013</b> , 52, 1622-30	3.2	6
176	Conformationally trapping the actin-binding cleft of myosin with a bifunctional spin label. <i>Journal of Biological Chemistry</i> , <b>2013</b> , 288, 3016-24	5.4	12
175	Magnesium impacts myosin V motor activity by altering key conformational changes in the mechanochemical cycle. <i>Biochemistry</i> , <b>2013</b> , 52, 4710-22	3.2	15

174	John Gergely (1919-2013): a pillar in the muscle protein field. <i>Journal of Muscle Research and Cell Motility</i> , <b>2013</b> , 34, 441-6	3.5	
173	Direct real-time detection of the actin-activated power stroke within the myosin catalytic domain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, 7211-6	11.5	45
172	High-throughput FRET assay yields allosteric SERCA activators. <i>Journal of Biomolecular Screening</i> , <b>2013</b> , 18, 97-107		47
171	Cardiac myosin binding protein-C restricts intrafilament torsional dynamics of actin in a phosphorylation-dependent manner. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2012</b> , 109, 20437-42	11.5	22
170	Allosteric communication in Dictyostelium myosin II. <i>Journal of Muscle Research and Cell Motility</i> , <b>2012</b> , 33, 305-12	3.5	7
169	Structural dynamics of muscle protein phosphorylation. <i>Journal of Muscle Research and Cell Motility</i> , <b>2012</b> , 33, 419-29	3.5	13
168	The carboxy-terminal third of dystrophin enhances actin binding activity. <i>Journal of Molecular Biology</i> , <b>2012</b> , 416, 414-24	6.5	15
167	Structural and functional dynamics of an integral membrane protein complex modulated by lipid headgroup charge. <i>Journal of Molecular Biology</i> , <b>2012</b> , 418, 379-89	6.5	30
166	Impacts of dystrophin and utrophin domains on actin structural dynamics: implications for therapeutic design. <i>Journal of Molecular Biology</i> , <b>2012</b> , 420, 87-98	6.5	17
165	Phospholamban mutants compete with wild type for SERCA binding in living cells. <i>Biochemical and Biophysical Research Communications</i> , <b>2012</b> , 420, 236-40	3.4	22
164	Three distinct actin-attached structural states of myosin in muscle fibers. <i>Biophysical Journal</i> , <b>2012</b> , 102, 1088-96	2.9	14
163	Protein-protein interactions in calcium transport regulation probed by saturation transfer electron paramagnetic resonance. <i>Biophysical Journal</i> , <b>2012</b> , 103, 1370-8	2.9	26
162	Tumor necrosis factor-related apoptosis-inducing ligand (TRAIL) induces death receptor 5 networks that are highly organized. <i>Journal of Biological Chemistry</i> , <b>2012</b> , 287, 21265-78	5.4	54
161	Accurate quantitation of phospholamban phosphorylation by immunoblot. <i>Analytical Biochemistry</i> , <b>2012</b> , 425, 68-75	3.1	13
160	Nucleotide activation of the Ca-ATPase. <i>Journal of Biological Chemistry</i> , <b>2012</b> , 287, 39070-82	5.4	20
159	Endoplasmic reticulum protein BI-1 regulates Ca <sup>2+</sup> -mediated bioenergetics to promote autophagy. <i>Genes and Development</i> , <b>2012</b> , 26, 1041-54	12.6	71
158	2-Color calcium pump reveals closure of the cytoplasmic headpiece with calcium binding. <i>PLoS ONE</i> , <b>2012</b> , 7, e40369	3.7	27
157	Temporal sequence of major biochemical events during blood bank storage of packed red blood cells. <i>Blood Transfusion</i> , <b>2012</b> , 10, 453-61	3.6	46



156	Functional and physical competition between phospholamban and its mutants provides insight into the molecular mechanism of gene therapy for heart failure. <i>Biochemical and Biophysical Research Communications</i> , <b>2011</b> , 408, 388-92	3.4	25
155	Lipid-mediated folding/unfolding of phospholamban as a regulatory mechanism for the sarcoplasmic reticulum Ca <sup>2+</sup> -ATPase. <i>Journal of Molecular Biology</i> , <b>2011</b> , 408, 755-65	6.5	45
154	Characterization of a myosin VII MyTH/FERM domain. <i>Journal of Molecular Biology</i> , <b>2011</b> , 413, 17-23	6.5	14
153	Actin filament dynamics in the actomyosin VI complex is regulated allosterically by calcium-calmodulin light chain. <i>Journal of Molecular Biology</i> , <b>2011</b> , 413, 584-92	6.5	8
152	Structural and functional impact of site-directed methionine oxidation in myosin. <i>Biochemistry</i> , <b>2011</b> , 50, 10318-27	3.2	20
151	A continuous fluorescence displacement assay for BioA: an enzyme involved in biotin biosynthesis. <i>Analytical Biochemistry</i> , <b>2011</b> , 416, 27-38	3.1	17
150	Large-scale opening of utrophin tandem calponin homology (CH) domains upon actin binding by an induced-fit mechanism. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2011</b> , 108, 12729-33	11.5	34
149	Structural kinetics of myosin by transient time-resolved FRET. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2011</b> , 108, 1891-6	11.5	45
148	Oligomeric interactions of sarcolipin and the Ca-ATPase. <i>Journal of Biological Chemistry</i> , <b>2011</b> , 286, 31693-706	3.7	35
147	Atomic-level characterization of the activation mechanism of SERCA by calcium. <i>PLoS ONE</i> , <b>2011</b> , 6, e26936	3.6	42
146	Phosphorylation-induced structural changes in smooth muscle myosin regulatory light chain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2010</b> , 107, 8207-12	11.5	62
145	Mapping the ryanodine receptor FK506-binding protein subunit using fluorescence resonance energy transfer. <i>Journal of Biological Chemistry</i> , <b>2010</b> , 285, 19219-26	5.4	33
144	Myosin isoform determines the conformational dynamics and cooperativity of actin filaments in the strongly bound actomyosin complex. <i>Journal of Molecular Biology</i> , <b>2010</b> , 396, 501-9	6.5	37
143	High-performance time-resolved fluorescence by direct waveform recording. <i>Review of Scientific Instruments</i> , <b>2010</b> , 81, 103101	1.7	43
142	Protein structural dynamics revealed by site-directed spin labeling and multifrequency EPR. <i>Biophysical Reviews</i> , <b>2010</b> , 2, 91-99	3.7	24
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