

# Howard S Young

## List of Publications by Citations

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47  
papers

1,223  
citations

18  
h-index

34  
g-index

54  
ext. papers

1,596  
ext. citations

4.5  
avg. IF

4.5  
L-index

#	Paper	IF	Citations
47	Feline coronavirus drug inhibits the main protease of SARS-CoV-2 and blocks virus replication. <i>Nature Communications</i> , <b>2020</b> , 11, 4282	17.4	199
46	The molecular basis for cyclopiazonic acid inhibition of the sarcoplasmic reticulum calcium pump. <i>Journal of Biological Chemistry</i> , <b>2007</b> , 282, 9748-9757	5.4	112
45	The Structural Architecture of an Infectious Mammalian Prion Using Electron Cryomicroscopy. <i>PLoS Pathogens</i> , <b>2016</b> , 12, e1005835	7.6	93
44	Cyclopiazonic acid is complexed to a divalent metal ion when bound to the sarcoplasmic reticulum Ca <sup>2+</sup> -ATPase. <i>Journal of Biological Chemistry</i> , <b>2009</b> , 284, 13513-13518	5.4	81
43	The SarcoEndoplasmic Reticulum Calcium ATPase. <i>Sub-Cellular Biochemistry</i> , <b>2018</b> , 87, 229-258	5.5	59
42	Sarco(endoplasmic reticulum calcium ATPase (SERCA) inhibition by sarcolipin is encoded in its luminal tail. <i>Journal of Biological Chemistry</i> , <b>2013</b> , 288, 8456-8467	5.4	52
41	Akt increases sarcoplasmic reticulum Ca <sup>2+</sup> cycling by direct phosphorylation of phospholamban at Thr17. <i>Journal of Biological Chemistry</i> , <b>2009</b> , 284, 28180-28187	5.4	50
40	Locating phospholamban in co-crystals with Ca(2+)-ATPase by cryoelectron microscopy. <i>Biophysical Journal</i> , <b>2001</b> , 81, 884-94	2.9	47
39	Phosphorylation and mutation of phospholamban alter physical interactions with the sarcoplasmic reticulum calcium pump. <i>Journal of Molecular Biology</i> , <b>2011</b> , 405, 707-23	6.5	46
38	Interactions between Ca <sup>2+</sup> -ATPase and the pentameric form of phospholamban in two-dimensional co-crystals. <i>Biophysical Journal</i> , <b>2006</b> , 90, 4213-23	2.9	44
37	Deception in simplicity: hereditary phospholamban mutations in dilated cardiomyopathy. <i>Biochemistry and Cell Biology</i> , <b>2015</b> , 93, 1-7	3.6	37
36	Rapid, high-yield expression and purification of Ca <sup>2+</sup> -ATPase regulatory proteins for high-resolution structural studies. <i>Protein Expression and Purification</i> , <b>2005</b> , 40, 118-25	2	37
35	Effects of phospholamban transmembrane mutants on the calcium affinity, maximal activity, and cooperativity of the sarcoplasmic reticulum calcium pump. <i>Biochemistry</i> , <b>2009</b> , 48, 9287-96	3.2	32
34	Hydrophobic imbalance in the cytoplasmic domain of phospholamban is a determinant for lethal dilated cardiomyopathy. <i>Journal of Biological Chemistry</i> , <b>2012</b> , 287, 16521-9	5.4	32
33	The effects of mutation on the regulatory properties of phospholamban in co-reconstituted membranes. <i>Biochemistry</i> , <b>2005</b> , 44, 3289-97	3.2	32
32	Alpha-bungarotoxin binding to acetylcholine receptor membranes studied by low angle X-ray diffraction. <i>Biophysical Journal</i> , <b>2003</b> , 85, 943-53	2.9	24
31	Rational design of peptide inhibitors of the sarcoplasmic reticulum calcium pump. <i>Biochemistry</i> , <b>2006</b> , 45, 8617-27	3.2	21

30	The Phospholamban Pentamer Alters Function of the Sarcoplasmic Reticulum Calcium Pump SERCA. <i>Biophysical Journal</i> , <b>2019</b> , 116, 633-647	2.9	20
29	Peptidomimetic $\beta$ -Acetyloxymethylketone Warheads with Six-Membered Lactam P1 Glutamine Mimic: SARS-CoV-2 3CL Protease Inhibition, Coronavirus Antiviral Activity, and Biological Stability. <i>Journal of Medicinal Chemistry</i> , <b>2021</b> ,	8.3	18
28	Improved SARS-CoV-2 M inhibitors based on feline antiviral drug GC376: Structural enhancements, increased solubility, and micellar studies. <i>European Journal of Medicinal Chemistry</i> , <b>2021</b> , 222, 113584	6.8	17
27	Structure-Function Relationship of the SERCA Pump and Its Regulation by Phospholamban and Sarcolipin. <i>Advances in Experimental Medicine and Biology</i> , <b>2017</b> , 981, 77-119	3.6	16
26	Conformational memory in the association of the transmembrane protein phospholamban with the sarcoplasmic reticulum calcium pump SERCA. <i>Journal of Biological Chemistry</i> , <b>2017</b> , 292, 21330-21339	5.4	15
25	Feline coronavirus drug inhibits the main protease of SARS-CoV-2 and blocks virus replication		12
24	N-Terminal Finger Stabilizes the S1 Pocket for the Reversible Feline Drug GC376 in the SARS-CoV-2 M Dimer. <i>Journal of Molecular Biology</i> , <b>2021</b> , 433, 167003	6.5	12
23	Phospholamban C-terminal residues are critical determinants of the structure and function of the calcium ATPase regulatory complex. <i>Journal of Biological Chemistry</i> , <b>2014</b> , 289, 25855-66	5.4	11
22	Peptide inhibitors use two related mechanisms to alter the apparent calcium affinity of the sarcoplasmic reticulum calcium pump. <i>Biochemistry</i> , <b>2008</b> , 47, 9522-30	3.2	11
21	Dwarf open reading frame (DWORF) is a direct activator of the sarcoplasmic reticulum calcium pump SERCA. <i>ELife</i> , <b>2021</b> , 10,	8.9	10
20	An internally quenched peptide as a new model substrate for rhomboid intramembrane proteases. <i>Biological Chemistry</i> , <b>2018</b> , 399, 1389-1397	4.5	8
19	Interaction of a Sarcolipin Pentamer and Monomer with the Sarcoplasmic Reticulum Calcium Pump, SERCA. <i>Biophysical Journal</i> , <b>2020</b> , 118, 518-531	2.9	8
18	Regulation of the sarcoplasmic reticulum calcium pump by divergent phospholamban isoforms in zebrafish. <i>Journal of Biological Chemistry</i> , <b>2015</b> , 290, 6777-88	5.4	7
17	Protein docking and steered molecular dynamics suggest alternative phospholamban-binding sites on the SERCA calcium transporter. <i>Journal of Biological Chemistry</i> , <b>2020</b> , 295, 11262-11274	5.4	7
16	Myocardial MMP-2 contributes to SERCA2a proteolysis during cardiac ischaemia-reperfusion injury. <i>Cardiovascular Research</i> , <b>2020</b> , 116, 1021-1031	9.9	7
15	Insights into the catalytic properties of the mitochondrial rhomboid protease PARL. <i>Journal of Biological Chemistry</i> , <b>2021</b> , 296, 100383	5.4	6
14	Nothing Regular about the Regulins: Distinct Functional Properties of SERCA Transmembrane Peptide Regulatory Subunits. <i>International Journal of Molecular Sciences</i> , <b>2021</b> , 22,	6.3	6
13	Peptidomimetic nitrile warheads as SARS-CoV-2 3CL protease inhibitors. <i>RSC Medicinal Chemistry</i> , <b>2021</b> , 12, 1722-1730	3.5	5

12	Distinct morphological and electrophysiological properties of an elk prion peptide. <i>Peptides</i> , <b>2013</b> , 40, 49-56	3.8	4
11	Probing catalytic rate enhancement during intramembrane proteolysis. <i>Biological Chemistry</i> , <b>2016</b> , 397, 907-19	4.5	4
10	Intrinsic disorder in the regulatory N-terminal domain of diacylglycerol acyltransferase 1 from <i>Brassica napus</i> . <i>Scientific Reports</i> , <b>2018</b> , 8, 16665	4.9	4
9	The ultrastructure of infectious L-type bovine spongiform encephalopathy prions constrains molecular models. <i>PLoS Pathogens</i> , <b>2021</b> , 17, e1009628	7.6	3
8	Crystallization of Feline Coronavirus M With GC376 Reveals Mechanism of Inhibition.. <i>Frontiers in Chemistry</i> , <b>2022</b> , 10, 852210	5	3
7	Protein Docking and Steered Molecular Dynamics Reveal Alternative Regulatory Sites on the SERCA Calcium Transporter		2
6	Stimulation of Ca <sup>2+</sup> -ATPase Transport Activity by a Small-Molecule Drug. <i>ChemMedChem</i> , <b>2021</b> , 16, 3293-3299	3.7	2
5	Skin cells prefer a slower calcium pump. <i>Journal of Biological Chemistry</i> , <b>2018</b> , 293, 3890-3891	5.4	1
4	N-Terminal finger stabilizes the reversible feline drug GC376 in SARS-CoV-2 Mpro		1
3	Membrane transport piece by piece: production of transmembrane peptides for structural and functional studies. <i>Current Protocols in Protein Science</i> , <b>2014</b> , 75, 29.8.1-29.8.28	3.1	
2	Two-Dimensional Crystallization of the Ca <sup>2+</sup> -ATPase for Electron Crystallography. <i>Methods in Molecular Biology</i> , <b>2016</b> , 1377, 421-41	1.4	
1	Helical Membrane Protein Crystallization in the New Era of Electron Cryo-Microscopy. <i>Methods in Molecular Biology</i> , <b>2021</b> , 2302, 179-199	1.4	