Howard S Young

List of Publications by Year
in descending order

47 papers	1,882 citations	304368 22 h-index	276539 41 g-index
54 all docs	54 docs citations	54 times ranked	2562 citing authors

#	Article	IF	Citations
1	Feline coronavirus drug inhibits the main protease of SARS-CoV-2 and blocks virus replication. Nature Communications, 2020, 11, 4282.	5.8	334
2	The Structural Architecture of an Infectious Mammalian Prion Using Electron Cryomicroscopy. PLoS Pathogens, 2016, 12, e1005835.	2.1	130
3	The Molecular Basis for Cyclopiazonic Acid Inhibition of the Sarcoplasmic Reticulum Calcium Pump. Journal of Biological Chemistry, 2007, 282, 9748-9757.	1.6	125
4	The SarcoEndoplasmic Reticulum Calcium ATPase. Sub-Cellular Biochemistry, 2018, 87, 229-258.	1.0	111
5	Cyclopiazonic Acid Is Complexed to a Divalent Metal Ion When Bound to the Sarcoplasmic Reticulum Ca2+-ATPase. Journal of Biological Chemistry, 2009, 284, 13513-13518.	1.6	90
6	Peptidomimetic Î±-Acyloxymethylketone Warheads with Six-Membered Lactam P1 Glutamine Mimic: SARS-CoV-2 3CL Protease Inhibition, Coronavirus Antiviral Activity, and in Vitro Biological Stability. Journal of Medicinal Chemistry, 2022, 65, 2905-2925.	2.9	71
7	Sarco(endo)plasmic Reticulum Calcium ATPase (SERCA) Inhibition by Sarcolipin Is Encoded in Its Luminal Tail. Journal of Biological Chemistry, 2013, 288, 8456-8467.	1.6	64
8	Akt Increases Sarcoplasmic Reticulum Ca2+ Cycling by Direct Phosphorylation of Phospholamban at Thr17. Journal of Biological Chemistry, 2009, 284, 28180-28187.	1.6	62
9	Improved SARS-CoV-2 Mpro inhibitors based on feline antiviral drug GC376: Structural enhancements, increased solubility, and micellar studies. European Journal of Medicinal Chemistry, 2021, 222, 113584.	2.6	57
10	Phosphorylation and Mutation of Phospholamban Alter Physical Interactions With the Sarcoplasmic Reticulum Calcium Pump. Journal of Molecular Biology, 2011, 405, 707-723.	2.0	55
11	Locating Phospholamban in Co-Crystals with Ca2+-ATPase by Cryoelectron Microscopy. Biophysical Journal, 2001, 81, 884-894.	0.2	53
12	Hydrophobic Imbalance in the Cytoplasmic Domain of Phospholamban Is a Determinant for Lethal Dilated Cardiomyopathy. Journal of Biological Chemistry, 2012, 287, 16521-16529.	1.6	49
13	Interactions between Ca2+-ATPase and the Pentameric Form of Phospholamban in Two-Dimensional Co-Crystals. Biophysical Journal, 2006, 90, 4213-4223.	0.2	47
14	Deception in simplicity: Hereditary phospholamban mutations in dilated cardiomyopathy. Biochemistry and Cell Biology, 2015, 93, 1-7.	0.9	44
15	Rapid, high-yield expression and purification of Ca2+-ATPase regulatory proteins for high-resolution structural studies. Protein Expression and Purification, 2005, 40, 118-125.	0.6	42
16	Peptidomimetic nitrile warheads as SARS-CoV-2 3CL protease inhibitors. RSC Medicinal Chemistry, 2021, 12, 1722-1730.	1.7	40
17	The Effects of Mutation on the Regulatory Properties of Phospholamban in Co-Reconstituted Membranesâ€. Biochemistry, 2005, 44, 3289-3297.	1.2	37
18	Effects of Phospholamban Transmembrane Mutants on the Calcium Affinity, Maximal Activity, and Cooperativity of the Sarcoplasmic Reticulum Calcium Pump. Biochemistry, 2009, 48, 9287-9296.	1.2	37

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19	Nothing Regular about the Regulins: Distinct Functional Properties of SERCA Transmembrane Peptide Regulatory Subunits. International Journal of Molecular Sciences, 2021, 22, 8891.	1.8	32
20	Dwarf open reading frame (DWORF) is a direct activator of the sarcoplasmic reticulum calcium pump SERCA. ELife, 2021, 10, .	2.8	31
21	Î±-Bungarotoxin Binding to Acetylcholine Receptor Membranes Studied by Low Angle X-Ray Diffraction. Biophysical Journal, 2003, 85, 943-953.	0.2	30
22	The Phospholamban Pentamer Alters Function of the Sarcoplasmic Reticulum Calcium Pump SERCA. Biophysical Journal, 2019, 116, 633-647.	0.2	30
23	Structure-Function Relationship of the SERCA Pump and Its Regulation by Phospholamban and Sarcolipin. Advances in Experimental Medicine and Biology, 2017, 981, 77-119.	0.8	25
24	Rational Design of Peptide Inhibitors of the Sarcoplasmic Reticulum Calcium Pumpâ€. Biochemistry, 2006, 45, 8617-8627.	1.2	24
25	N-Terminal Finger Stabilizes the S1 Pocket for the Reversible Feline Drug GC376 in the SARS-CoV-2 Mpro Dimer. Journal of Molecular Biology, 2021, 433, 167003.	2.0	23
26	Conformational memory in the association of the transmembrane protein phospholamban with the sarcoplasmic reticulum calcium pump SERCA. Journal of Biological Chemistry, 2017, 292, 21330-21339.	1.6	18
27	Crystallization of Feline Coronavirus Mpro With GC376 Reveals Mechanism of Inhibition. Frontiers in Chemistry, 2022, 10, 852210.	1.8	17
28	Myocardial MMP-2 contributes to SERCA2a proteolysis during cardiac ischaemiaâ€“reperfusion injury. Cardiovascular Research, 2020, 116, 1021-1031.	1.8	16
29	Insights into the catalytic properties of the mitochondrial rhomboid protease PARL. Journal of Biological Chemistry, 2021, 296, 100383.	1.6	16
30	Protein docking and steered molecular dynamics suggest alternative phospholamban-binding sites on the SERCA calcium transporter. Journal of Biological Chemistry, 2020, 295, 11262-11274.	1.6	15
31	Stimulation of Ca²⁺â€ATPase Transport Activity by a Smallâ€Molecule Drug. ChemMedChem, 2021, 16, 3293-3299.	1.6	15
32	Phospholamban C-terminal Residues Are Critical Determinants of the Structure and Function of the Calcium ATPase Regulatory Complex. Journal of Biological Chemistry, 2014, 289, 25855-25866.	1.6	14
33	Peptide Inhibitors Use Two Related Mechanisms To Alter the Apparent Calcium Affinity of the Sarcoplasmic Reticulum Calcium Pump. Biochemistry, 2008, 47, 9522-9530.	1.2	13
34	Regulation of the Sarcoplasmic Reticulum Calcium Pump by Divergent Phospholamban Isoforms in Zebrafish. Journal of Biological Chemistry, 2015, 290, 6777-6788.	1.6	13
35	Interaction of a Sarcolipin Pentamer and Monomer with the Sarcoplasmic Reticulum Calcium Pump, SERCA. Biophysical Journal, 2020, 118, 518-531.	0.2	13
36	An internally quenched peptide as a new model substrate for rhomboid intramembrane proteases. Biological Chemistry, 2018, 399, 1389-1397.	1.2	12

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37	The ultrastructure of infectious L-type bovine spongiform encephalopathy prions constrains molecular models. PLoS Pathogens, 2021, 17, e1009628.	2.1	11
38	Intrinsic disorder in the regulatory N-terminal domain of diacylglycerol acyltransferase 1 from Brassica napus. Scientific Reports, 2018, 8, 16665.	1.6	10
39	Probing catalytic rate enhancement during intramembrane proteolysis. Biological Chemistry, 2016, 397, 907-919.	1.2	6
40	Distinct morphological and electrophysiological properties of an elk prion peptide. Peptides, 2013, 40, 49-56.	1.2	4
41	Skin cells prefer a slower calcium pump. Journal of Biological Chemistry, 2018, 293, 3890-3891.	1.6	4
42	Regulating the regulator: intramembrane proteolysis of vesicular trafficking proteins and the SERCA regulator phospholamban. EMBO Reports, 2019, 20, .	2.0	2
43	Primitive Phospholamban- and Sarcolipin-like Peptides Inhibit the Sarcoplasmic Reticulum Calcium Pump SERCA. Biochemistry, 2022, 61, 1419-1430.	1.2	2
44	Two dimensional crystallization of calcium transport regulatory complexes. Acta Crystallographica Section A: Foundations and Advances, 2014, 70, C1066-C1066.	0.0	1
45	Membrane Transport Piece by Piece: Production of Transmembrane Peptides for Structural and Functional Studies. Current Protocols in Protein Science, 2014, 75, 29.8.1-29.8.28.	2.8	0
46	Helical Membrane Protein Crystallization in the New Era of Electron Cryo-Microscopy. Methods in Molecular Biology, 2021, 2302, 179-199.	0.4	0
47	Two-Dimensional Crystallization of the Ca2+-ATPase for Electron Crystallography. Methods in Molecular Biology, 2016, 1377, 421-441.	0.4	0