

Robert L Campbell

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

2,354
citations

279487

23
h-index

288905

40
g-index

42
all docs

42
docs citations

42
times ranked

2567
citing authors

#	ARTICLE	IF	CITATIONS
1	Anchored clathrate waters bind antifreeze proteins to ice. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 7363-7367.	3.3	325
2	Calcium-bound structure of calpain and its mechanism of inhibition by calpastatin. Nature, 2008, 456, 409-412.	13.7	270
3	Structure-function relationships in calpains. Biochemical Journal, 2012, 447, 335-351.	1.7	181
4	An Antifreeze Protein Folds with an Interior Network of More Than 400 Semi-Clathrate Waters. Science, 2014, 343, 795-798.	6.0	150
5	Crystal structure of human estrogenic 17 β -hydroxysteroid dehydrogenase complexed with 17 β -estradiol. Nature Structural and Molecular Biology, 1996, 3, 665-668.	3.6	136
6	A Ca ²⁺ -dependent bacterial antifreeze protein domain has a novel β -helical ice-binding fold. Biochemical Journal, 2008, 411, 171-180.	1.7	124
7	Antifreeze Protein from Freeze-Tolerant Grass Has a Beta-Roll Fold with an Irregularly Structured Ice-Binding Site. Journal of Molecular Biology, 2012, 416, 713-724.	2.0	120
8	Novel dimeric β -helical model of an ice nucleation protein with bridged active sites. BMC Structural Biology, 2011, 11, 36.	2.3	107
9	Structure of a 1.5-MDa adhesin that binds its Antarctic bacterium to diatoms and ice. Science Advances, 2017, 3, e1701440.	4.7	83
10	Genetic model of selective COX2 inhibition reveals novel heterodimer signaling. Nature Medicine, 2006, 12, 699-704.	15.2	76
11	A concerted, rational design of type 1 17 β -hydroxysteroid dehydrogenase inhibitors: estradiol-adenosine hybrids with high affinity. FASEB Journal, 2002, 16, 1-26.	0.2	74
12	Molecular modeling of the human multidrug resistance protein 1 (MRP1/ABCC1). Biochemical and Biophysical Research Communications, 2008, 365, 29-34.	1.0	70
13	Structural Modeling of Snow Flea Antifreeze Protein. Biophysical Journal, 2007, 92, 1717-1723.	0.2	57
14	Dehydroepiandrosterone and Dihydrotestosterone Recognition by Human Estrogenic 17 β -Hydroxysteroid Dehydrogenase. Journal of Biological Chemistry, 2000, 275, 1105-1111.	1.6	50
15	Insertion Sequence 1 of Muscle-specific Calpain, p94, Acts as an Internal Propeptide. Journal of Biological Chemistry, 2004, 279, 27656-27666.	1.6	48
16	Cocrystal Structures of Primed Side-Extending β -Ketoamide Inhibitors Reveal Novel Calpain-Inhibitor Aromatic Interactions. Journal of Medicinal Chemistry, 2008, 51, 5264-5270.	2.9	42
17	Homodimerization of calpain 3 penta-EF-hand domain. Biochemical Journal, 2005, 388, 585-591.	1.7	38
18	Development of Calpain-specific Inactivators by Screening of Positional Scanning Epoxide Libraries. Journal of Biological Chemistry, 2007, 282, 9600-9611.	1.6	36

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19	Hyperactive Antifreeze Protein from Fish Contains Multiple Ice-Binding Sites. <i>Biochemistry</i> , 2008, 47, 2051-2063.	1.2	34
20	Ca ²⁺ -stabilized adhesin helps an Antarctic bacterium reach out and bind ice. <i>Bioscience Reports</i> , 2014, 34, .	1.1	32
21	Structures of human calpain-3 protease core with and without bound inhibitor reveal mechanisms of calpain activation. <i>Journal of Biological Chemistry</i> , 2018, 293, 4056-4070.	1.6	31
22	Flies expand the repertoire of protein structures that bind ice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 737-742.	3.3	28
23	Crystal structure of calpain β penta α -EF β hand (α PEF) domain α a homodimerized α PEF family member with calcium bound at the fifth α -EF β hand. <i>FEBS Journal</i> , 2014, 281, 3138-3149.	2.2	26
24	Limb-Girdle Muscular Dystrophy Type 2A Can Result from Accelerated Autoproteolytic Inactivation of Calpain 3. <i>Biochemistry</i> , 2009, 48, 3457-3467.	1.2	21
25	Distinguishing between calpain heterodimerization and homodimerization. <i>FEBS Journal</i> , 2009, 276, 973-982.	2.2	20
26	Role of α -Ca ²⁺ in folding the tandem β -sandwich extender domains of a bacterial ice-binding adhesin. <i>FEBS Journal</i> , 2013, 280, 5919-5932.	2.2	20
27	Allosteric inhibitors of calpains: Reevaluating inhibition by PD150606 and LSEAL. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2014, 1840, 3367-3373.	1.1	19
28	New Cysteine-Rich Ice-Binding Protein Secreted from Antarctic Microalga, <i>Chloromonas</i> sp.. <i>PLoS ONE</i> , 2016, 11, e0154056.	1.1	18
29	Revealing Surface Waters on an Antifreeze Protein by Fusion Protein Crystallography Combined with Molecular Dynamic Simulations. <i>Journal of Physical Chemistry B</i> , 2015, 119, 12808-12815.	1.2	17
30	Metal ion-dependent, reversible, protein filament formation by designed beta-roll polypeptides. <i>BMC Structural Biology</i> , 2007, 7, 63.	2.3	16
31	Profiling of calpain activity with a series of FRET-based substrates. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2009, 1794, 1505-1509.	1.1	15
32	Rational Design of Calpain Inhibitors Based on Calpastatin Peptidomimetics. <i>Journal of Medicinal Chemistry</i> , 2016, 59, 5403-5415.	2.9	15
33	Crystal structure of an insect antifreeze protein reveals ordered waters on the ice-binding surface. <i>Biochemical Journal</i> , 2020, 477, 3271-3286.	1.7	15
34	Carrot α -antifreeze β protein has an irregular ice-binding site that confers weak freezing point depression but strong inhibition of ice recrystallization. <i>Biochemical Journal</i> , 2020, 477, 2179-2192.	1.7	13
35	Insertion sequence 1 from calpain-3 is functional in calpain-2 as an internal propeptide. <i>Journal of Biological Chemistry</i> , 2018, 293, 17716-17730.	1.6	7
36	Two non-reactive ternary complexes of estrogenic 17 β -hydroxysteroid dehydrogenase: crystallization and preliminary structural analysis. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 1999, 68, 239-244.	1.2	4

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37	Crystallization and preliminary X-ray diffraction analysis of the chloramphenicol acetyltransferase from Tn2424. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2001, 57, 281-283.	2.5	4
38	Kar3/Vik1 Mechanochemistry Is Inhibited by Mutation or Deletion of the C Terminus of the Vik1 Subunit*. <i>Journal of Biological Chemistry</i> , 2013, 288, 36957-36970.	1.6	4
39	Modeling repetitive, non- α -globular proteins. <i>Protein Science</i> , 2016, 25, 946-958.	3.1	4
40	Phasing with calcium at home. <i>Acta Crystallographica Section F, Structural Biology Communications</i> , 2019, 75, 377-384.	0.4	4