Robert L Campbell

List of Publications by Year
in descending order

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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	Carrot â€˜antifreezeâ€™ protein has an irregular ice-binding site that confers weak freezing point depression but strong inhibition of ice recrystallization. Biochemical Journal, 2020, 477, 2179-2192.	1.7	13
2	Crystal structure of an insect antifreeze protein reveals ordered waters on the ice-binding surface. Biochemical Journal, 2020, 477, 3271-3286.	1.7	15
3	Phasing with calcium at home. Acta Crystallographica Section F, Structural Biology Communications, 2019, 75, 377-384.	0.4	4
4	Structures of human calpain-3 protease core with and without bound inhibitor reveal mechanisms of calpain activation. Journal of Biological Chemistry, 2018, 293, 4056-4070.	1.6	31
5	Insertion sequence 1 from calpain-3 is functional in calpain-2 as an internal propeptide. Journal of Biological Chemistry, 2018, 293, 17716-17730.	1.6	7
6	Structure of a 1.5-MDa adhesin that binds its Antarctic bacterium to diatoms and ice. Science Advances, 2017, 3, e1701440.	4.7	83
7	New Cysteine-Rich Ice-Binding Protein Secreted from Antarctic Microalga, Chloromonas sp.. PLoS ONE, 2016, 11, e0154056.	1.1	18
8	Rational Design of Calpain Inhibitors Based on Calpastatin Peptidomimetics. Journal of Medicinal Chemistry, 2016, 59, 5403-5415.	2.9	15
9	Modeling repetitive, nonâ€globular proteins. Protein Science, 2016, 25, 946-958.	3.1	4
10	Flies expand the repertoire of protein structures that bind ice. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 737-742.	3.3	28
11	Revealing Surface Waters on an Antifreeze Protein by Fusion Protein Crystallography Combined with Molecular Dynamic Simulations. Journal of Physical Chemistry B, 2015, 119, 12808-12815.	1.2	17
12	Allosteric inhibitors of calpains: Reevaluating inhibition by PD150606 and LSEAL. Biochimica Et Biophysica Acta - General Subjects, 2014, 1840, 3367-3373.	1.1	19
13	Ca2+-stabilized adhesin helps an Antarctic bacterium reach out and bind ice. Bioscience Reports, 2014, 34, .	1.1	32
14	Crystal structure of calpainâ€3 pentaâ€<scp>EF</scp>â€hand (<scp>PEF</scp>) domain â€“ a homodimerized <scp>PEF</scp> family member with calcium bound at the fifth <scp>EF</scp>â€hand. FEBS Journal, 2014, 281, 3138-3149.	2.2	26
15	An Antifreeze Protein Folds with an Interior Network of More Than 400 Semi-Clathrate Waters. Science, 2014, 343, 795-798.	6.0	150
16	Role of <scp>C</scp>a²⁺ in folding the tandem Î²â€sandwich extender domains of a bacterial iceâ€binding adhesin. FEBS Journal, 2013, 280, 5919-5932.	2.2	20
17	Kar3Vik1 Mechanochemistry Is Inhibited by Mutation or Deletion of the C Terminus of the Vik1 Subunit*. Journal of Biological Chemistry, 2013, 288, 36957-36970.	1.6	4
18	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

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19	Structureâ€“function relationships in calpains. Biochemical Journal, 2012, 447, 335-351.	1.7	181
20	Novel dimeric Î²-helical model of an ice nucleation protein with bridged active sites. BMC Structural Biology, 2011, 11, 36.	2.3	107
21	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
22	Distinguishing between calpain heterodimerization and homodimerization. FEBS Journal, 2009, 276, 973-982.	2.2	20
23	Profiling of calpain activity with a series of FRET-based substrates. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2009, 1794, 1505-1509.	1.1	15
24	Limb-Girdle Muscular Dystrophy Type 2A Can Result from Accelerated Autoproteolytic Inactivation of Calpain 3. Biochemistry, 2009, 48, 3457-3467.	1.2	21
25	Calcium-bound structure of calpain and its mechanism of inhibition by calpastatin. Nature, 2008, 456, 409-412.	13.7	270
26	Molecular modeling of the human multidrug resistance protein 1 (MRP1/ABCC1). Biochemical and Biophysical Research Communications, 2008, 365, 29-34.	1.0	70
27	Hyperactive Antifreeze Protein from Fish Contains Multiple Ice-Binding Sites. Biochemistry, 2008, 47, 2051-2063.	1.2	34
28	Cocrystal Structures of Primed Side-Extending Î±-Ketoamide Inhibitors Reveal Novel Calpain-Inhibitor Aromatic Interactions. Journal of Medicinal Chemistry, 2008, 51, 5264-5270.	2.9	42
29	A Ca2+-dependent bacterial antifreeze protein domain has a novel Î²-helical ice-binding fold. Biochemical Journal, 2008, 411, 171-180.	1.7	124
30	Development of Calpain-specific Inactivators by Screening of Positional Scanning Epoxide Libraries. Journal of Biological Chemistry, 2007, 282, 9600-9611.	1.6	36
31	Structural Modeling of Snow Flea Antifreeze Protein. Biophysical Journal, 2007, 92, 1717-1723.	0.2	57
32	Metal ion-dependent, reversible, protein filament formation by designed beta-roll polypeptides. BMC Structural Biology, 2007, 7, 63.	2.3	16
33	Genetic model of selective COX2 inhibition reveals novel heterodimer signaling. Nature Medicine, 2006, 12, 699-704.	15.2	76
34	Homodimerization of calpain 3 penta-EF-hand domain. Biochemical Journal, 2005, 388, 585-591.	1.7	38
35	Insertion Sequence 1 of Muscle-specific Calpain, p94, Acts as an Internal Propeptide. Journal of Biological Chemistry, 2004, 279, 27656-27666.	1.6	48
36	A concerted, rational design of type 1 17Î²â€hydroxysteroid dehydrogenase inhibitors: estradiolâ€adenosine hybrids with high affinity. FASEB Journal, 2002, 16, 1-26.	0.2	74

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37	Crystallization and preliminary X-ray diffraction analysis of the chloramphenicol acetyltransferase from Tn2424. Acta Crystallographica Section D: Biological Crystallography, 2001, 57, 281-283.	2.5	4
38	Dehydroepiandrosterone and Dihydrotestosterone Recognition by Human Estrogenic 17Î²-Hydroxysteroid Dehydrogenase. Journal of Biological Chemistry, 2000, 275, 1105-1111.	1.6	50
39	Two non-reactive ternary complexes of estrogenic 17Î²-hydroxysteroid dehydrogenase: crystallization and preliminary structural analysis. Journal of Steroid Biochemistry and Molecular Biology, 1999, 68, 239-244.	1.2	4
40	Crystal structure of human estrogenic 17Î²-hydroxysteroid dehydrogenase complexed with 17Î²-estradiol. Nature Structural and Molecular Biology, 1996, 3, 665-668.	3.6	136