

Zenon Grabarek

List of Publications by Year in descending order

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52
papers

5,275
citations

136950

32
h-index

189892

50
g-index

53
all docs

53
docs citations

53
times ranked

6815
citing authors

#	ARTICLE	IF	CITATIONS
1	MitoCarta3.0: an updated mitochondrial proteome now with sub-organelle localization and pathway annotations. <i>Nucleic Acids Research</i> , 2021, 49, D1541-D1547.	14.5	760
2	Zero-length crosslinking procedure with the use of active esters. <i>Analytical Biochemistry</i> , 1990, 185, 131-135.	2.4	750
3	Structural basis for the activation of anthrax adenyl cyclase exotoxin by calmodulin. <i>Nature</i> , 2002, 415, 396-402.	27.8	388
4	Structural Basis for Diversity of the EF-hand Calcium-binding Proteins. <i>Journal of Molecular Biology</i> , 2006, 359, 509-525.	4.2	334
5	Complementation of mitochondrial electron transport chain by manipulation of the NAD ⁺ /NADH ratio. <i>Science</i> , 2016, 352, 231-235.	12.6	314
6	Architecture of the mitochondrial calcium uniporter. <i>Nature</i> , 2016, 533, 269-273.	27.8	256
7	Actin-bound structures of Wiskott-Aldrich syndrome protein (WASP)-homology domain 2 and the implications for filament assembly. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 16644-16649.	7.1	228
8	Widespread Chromosomal Losses and Mitochondrial DNA Alterations as Genetic Drivers in Human Bladder Cell Carcinoma. <i>Cancer Cell</i> , 2018, 34, 242-255.e5.	16.8	185
9	Structures of four Ca ²⁺ -bound troponin C at 2.0 Å resolution: further insights into the Ca ²⁺ -switch in the calmodulin superfamily. <i>Structure</i> , 1997, 5, 1695-1711.	3.3	165
10	Molecular mechanism of troponin-C function. <i>Journal of Muscle Research and Cell Motility</i> , 1992, 13, 383-393.	2.0	134
11	Inhibition of mutant troponin C activity by an intra-domain disulphide bond. <i>Nature</i> , 1990, 345, 132-135.	27.8	114
12	High-affinity cooperative Ca ²⁺ binding by MICU1 and MICU2 serves as an on-off switch for the uniporter. <i>EMBO Reports</i> , 2017, 18, 1397-1411.	4.5	111
13	Insights into modulation of calcium signaling by magnesium in calmodulin, troponin C and related EF-hand proteins. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2011, 1813, 913-921.	4.1	109
14	The Human Knockout Gene CLYBL Connects Itaconate to Vitamin B12. <i>Cell</i> , 2017, 171, 771-782.e11.	28.9	102
15	Similarity in Ca ²⁺ -induced changes between troponin-C and protein activator of cyclic nucleotide phosphodiesterase and their tryptic fragments. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1977, 485, 124-133.	2.6	97
16	Physiological calcium concentrations regulate calmodulin binding and catalysis of adenyl cyclase exotoxins. <i>EMBO Journal</i> , 2002, 21, 6721-6732.	7.8	91
17	Characterization of zero-length cross-links between rabbit skeletal muscle troponin C and troponin I: evidence for direct interaction between the inhibitory region of troponin I and the amino-terminal, regulatory domain of troponin C. <i>Biochemistry</i> , 1990, 29, 299-304.	2.5	84
18	A genetically encoded tool for manipulation of NADP ⁺ /NADPH in living cells. <i>Nature Chemical Biology</i> , 2017, 13, 1088-1095.	8.0	77

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19	Comparative studies on thermostability of calmodulin, skeletal muscle troponin C and their tryptic fragments. <i>FEBS Letters</i> , 1983, 153, 169-173.	2.8	74
20	Structure of a Trapped Intermediate of Calmodulin: Calcium Regulation of EF-hand Proteins from a New Perspective. <i>Journal of Molecular Biology</i> , 2005, 346, 1351-1366.	4.2	65
21	Dual Effect of ATP in the Activation Mechanism of Brain Ca ²⁺ /Calmodulin-Dependent Protein Kinase II by Ca ²⁺ /Calmodulin. <i>Biochemistry</i> , 2001, 40, 14878-14890.	2.5	61
22	An Extended Conformation of Calmodulin Induces Interactions between the Structural Domains of Adenylyl Cyclase from <i>Bacillus anthracis</i> to Promote Catalysis. <i>Journal of Biological Chemistry</i> , 2000, 275, 36334-36340.	3.4	60
23	Structure of the light chain-binding domain of myosin V. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 12718-12723.	7.1	59
24	MICU1 imparts the mitochondrial uniporter with the ability to discriminate between Ca ²⁺ and Mn ²⁺ . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E7960-E7969.	7.1	59
25	X-ray Structures of Magnesium and Manganese Complexes with the N-Terminal Domain of Calmodulin: Insights into the Mechanism and Specificity of Metal Ion Binding to an EF-Hand. <i>Biochemistry</i> , 2012, 51, 6182-6194.	2.5	58
26	Blocking the Ca ²⁺ -induced Conformational Transitions in Calmodulin with Disulfide Bonds. <i>Journal of Biological Chemistry</i> , 1996, 271, 7479-7483.	3.4	55
27	Crystal structure of MICU2 and comparison with MICU1 reveal insights into the uniporter gating mechanism. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 3546-3555.	7.1	39
28	Extracellular regulated kinase (ERK) interaction with actin and the calponin homology (CH) domain of actin-binding proteins. <i>Biochemical Journal</i> , 1999, 344, 117.	3.7	38
29	Solution conformation of the C-terminal domain of skeletal troponin C. Cation, trifluoperazine and troponin I binding effects. <i>FEBS Journal</i> , 1985, 151, 17-28.	0.2	37
30	Multiple-sited interaction of caldesmon with Ca ²⁺ -calmodulin. <i>Biochemical Journal</i> , 1996, 316, 413-420.	3.7	37
31	MARCKS is a major PKC-dependent regulator of calmodulin targeting in smooth muscle. <i>Journal of Cell Science</i> , 2005, 118, 3595-3605.	2.0	33
32	Degradation of TN-C component of troponin by trypsin. <i>Biochimica Et Biophysica Acta (BBA) - Protein Structure</i> , 1977, 490, 216-224.	1.7	32
33	CLYBL is a polymorphic human enzyme with malate synthase and $\hat{1}^2$ -methylmalate synthase activity. <i>Human Molecular Genetics</i> , 2014, 23, 2313-2323.	2.9	29
34	Differential functional properties of calmodulin-dependent protein kinase IIgamma variants isolated from smooth muscle. <i>Biochemical Journal</i> , 2003, 372, 347-357.	3.7	28
35	Sodium-23 Nuclear Magnetic Resonance as an Indicator of Sodium Binding to Troponin C and Tryptic Fragments, in Relation to Calcium Content and Attendant Conformational Changes. <i>FEBS Journal</i> , 1980, 105, 289-295.	0.2	25
36	Extensive Interactions Between Troponins C and I. Zero-Length Footnotes: Crosslinking Of Troponin I and Acetylated Troponin C. <i>Biochemistry</i> , 1995, 34, 10946-10952.	2.5	22

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37	Calmodulin Binds to Caldesmon in an Antiparallel Manner. <i>Biochemistry</i> , 1997, 36, 15026-15034.	2.5	22
38	The Role of Phe-92 in the Ca ²⁺ -induced Conformational Transition in the C-terminal Domain of Calmodulin. <i>Journal of Biological Chemistry</i> , 1996, 271, 11284-11290.	3.4	19
39	Properties of Troponin C Acetylated at Lysine Residues. <i>Biochemistry</i> , 1995, 34, 11872-11881.	2.5	17
40	Differential Effects of Caldesmon on the Intermediate Conformational States of Polymerizing Actin. <i>Journal of Biological Chemistry</i> , 2010, 285, 71-79.	3.4	16
41	Modulation of myosin filament activation by telokin in smooth muscle. <i>Biophysical Chemistry</i> , 2005, 113, 25-40.	2.8	15
42	Rat liver proteins binding and transferring phosphatidylserine. <i>FEBS Letters</i> , 1979, 104, 253-257.	2.8	14
43	Modular Structure of Smooth Muscle Myosin Light Chain Kinase: Hydrodynamic Modeling and Functional Implications. <i>Biochemistry</i> , 2010, 49, 2903-2917.	2.5	14
44	Fluorescence probe study of Ca ²⁺ -dependent interactions of calmodulin with calmodulin-binding peptides of the ryanodine receptor. <i>Biochemical and Biophysical Research Communications</i> , 2004, 323, 760-768.	2.1	12
45	Distribution of troponin C and protein activator of 3',5'-cyclic nucleotide phosphodiesterase in vertebrate tissues. <i>Comparative Biochemistry and Physiology Part C: Comparative Pharmacology</i> , 1978, 60, 1-6.	0.2	9
46	Phosphorylation at Ser26 in the ATP-binding site of Ca ²⁺ /calmodulin-dependent kinase II as a mechanism for switching off the kinase activity. <i>Bioscience Reports</i> , 2013, 33, .	2.4	8
47	The Molecular Switch in Troponin C. <i>Advances in Experimental Medicine and Biology</i> , 1993, 332, 117-123.	1.6	7
48	Conformational changes induced in troponin I by interaction with troponin T and actin/tropomyosin. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 1999, 1450, 423-433.	4.1	5
49	The Ca ²⁺ /Mg ²⁺ sites of troponin C modulate crossbridge-mediated thin filament activation in cardiac myofibrils. <i>Biochemical and Biophysical Research Communications</i> , 2011, 408, 697-700.	2.1	5
50	The green tea polyphenol (âˆ’) -epigallocatechin-3-gallate inhibits magnesium binding to the C-domain of cardiac troponin C. <i>Journal of Muscle Research and Cell Motility</i> , 2013, 34, 107-113.	2.0	2
51	John Gergely (1919â€“2013): a pillar in the muscle protein field. <i>Journal of Muscle Research and Cell Motility</i> , 2013, 34, 441-446.	2.0	0
52	Structure-Function Relations in Troponin C. <i>Chemical Modification Studies. Advances in Experimental Medicine and Biology</i> , 1990, 269, 85-88.	1.6	0