Zenon Grabarek

List of Publications by Year
in descending order

52 papers	5,275 citations	136740 32 h-index	189595 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. Nucleic Acids Research, 2021, 49, D1541-D1547.	6.5	760
2	Crystal structure of MICU2 and comparison with MICU1 reveal insights into the uniporter gating mechanism. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 3546-3555.	3.3	39
3	MICU1 imparts the mitochondrial uniporter with the ability to discriminate between Ca ²⁺ and Mn ²⁺. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E7960-E7969.	3.3	59
4	Widespread Chromosomal Losses and Mitochondrial DNA Alterations as Genetic Drivers in HÃ¼rthle Cell Carcinoma. Cancer Cell, 2018, 34, 242-255.e5.	7.7	185
5	Highâ€affinity cooperative Ca²⁺ binding by <scp>MICU</scp>1â€“<scp>MICU</scp>2 serves as an onâ€“off switch for theÂ uniporter. EMBO Reports, 2017, 18, 1397-1411.	2.0	111
6	The Human Knockout Gene CLYBL Connects Itaconate to Vitamin B12. Cell, 2017, 171, 771-782.e11.	13.5	102
7	A genetically encoded tool for manipulation of NADP+/NADPH in living cells. Nature Chemical Biology, 2017, 13, 1088-1095.	3.9	77
8	Complementation of mitochondrial electron transport chain by manipulation of the NAD ⁺ /NADH ratio. Science, 2016, 352, 231-235.	6.0	314
9	Architecture of the mitochondrial calcium uniporter. Nature, 2016, 533, 269-273.	13.7	256
10	CLYBL is a polymorphic human enzyme with malate synthase and Î²-methylmalate synthase activity. Human Molecular Genetics, 2014, 23, 2313-2323.	1.4	29
11	The green tea polyphenol (âˆ’)-epigallocatechin-3-gallate inhibits magnesium binding to the C-domain of cardiac troponin C. Journal of Muscle Research and Cell Motility, 2013, 34, 107-113.	0.9	2
12	John Gergely (1919â€“2013): a pillar in the muscle protein field. Journal of Muscle Research and Cell Motility, 2013, 34, 441-446.	0.9	0
13	Phosphorylation at Ser26 in the ATP-binding site of Ca2+/calmodulin-dependent kinase II as a mechanism for switching off the kinase activity. Bioscience Reports, 2013, 33, .	1.1	8
14	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. Biochemistry, 2012, 51, 6182-6194.	1.2	58
15	The Ca2+/Mg2+ sites of troponin C modulate crossbridge-mediated thin filament activation in cardiac myofibrils. Biochemical and Biophysical Research Communications, 2011, 408, 697-700.	1.0	5
16	Insights into modulation of calcium signaling by magnesium in calmodulin, troponin C and related EF-hand proteins. Biochimica Et Biophysica Acta - Molecular Cell Research, 2011, 1813, 913-921.	1.9	109
17	Differential Effects of Caldesmon on the Intermediate Conformational States of Polymerizing Actin. Journal of Biological Chemistry, 2010, 285, 71-79.	1.6	16
18	Modular Structure of Smooth Muscle Myosin Light Chain Kinase: Hydrodynamic Modeling and Functional Implications. Biochemistry, 2010, 49, 2903-2917.	1.2	14

#	Article	IF	Citations
19	Structural Basis for Diversity of the EF-hand Calcium-binding Proteins. Journal of Molecular Biology, 2006, 359, 509-525.	2.0	334
20	Modulation of myosin filament activation by telokin in smooth muscle. Biophysical Chemistry, 2005, 113, 25-40.	1.5	15
21	MARCKS is a major PKC-dependent regulator of calmodulin targeting in smooth muscle. Journal of Cell Science, 2005, 118, 3595-3605.	1.2	33
22	Actin-bound structures of Wiskott-Aldrich syndrome protein (WASP)-homology domain 2 and the implications for filament assembly. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 16644-16649.	3.3	228
23	Structure of the light chain-binding domain of myosin V. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 12718-12723.	3.3	59
24	Structure of a Trapped Intermediate of Calmodulin: Calcium Regulation of EF-hand Proteins from a New Perspective. Journal of Molecular Biology, 2005, 346, 1351-1366.	2.0	65
25	Fluorescence probe study of Ca2+-dependent interactions of calmodulin with calmodulin-binding peptides of the ryanodine receptor. Biochemical and Biophysical Research Communications, 2004, 323, 760-768.	1.0	12
26	Differential functional properties of calmodulin-dependent protein kinase IIgamma variants isolated from smooth muscle. Biochemical Journal, 2003, 372, 347-357.	1.7	28
27	Structural basis for the activation of anthrax adenylyl cyclase exotoxin by calmodulin. Nature, 2002, 415, 396-402.	13.7	388
28	Physiological calcium concentrations regulate calmodulin binding and catalysis of adenylyl cyclase exotoxins. EMBO Journal, 2002, 21, 6721-6732.	3.5	91
29	Dual Effect of ATP in the Activation Mechanism of Brain Ca2+/Calmodulin-Dependent Protein Kinase II by Ca2+/Calmodulinâ€. Biochemistry, 2001, 40, 14878-14890.	1.2	61
30	An Extended Conformation of Calmodulin Induces Interactions between the Structural Domains of Adenylyl Cyclase from Bacillus anthracis to Promote Catalysis. Journal of Biological Chemistry, 2000, 275, 36334-36340.	1.6	60
31	Conformational changes induced in troponin I by interaction with troponin T and actin/tropomyosin. Biochimica Et Biophysica Acta - Molecular Cell Research, 1999, 1450, 423-433.	1.9	5
32	Extracellular regulated kinase (ERK) interaction with actin and the calponin homology (CH) domain of actin-binding proteins. Biochemical Journal, 1999, 344, 117.	1.7	38
33	Calmodulin Binds to Caldesmon in an Antiparallel Mannerâ€. Biochemistry, 1997, 36, 15026-15034.	1.2	22
34	Structures of four Ca2+-bound troponin C at 2.0 Ã… resolution: further insights into the Ca2+-switch in the calmodulin superfamily. Structure, 1997, 5, 1695-1711.	1.6	165
35	Multiple-sited interaction of caldesmon with Ca2+-calmodulin. Biochemical Journal, 1996, 316, 413-420.	1.7	37
36	Blocking the Ca2+-induced Conformational Transitions in Calmodulin with Disulfide Bonds. Journal of Biological Chemistry, 1996, 271, 7479-7483.	1.6	55

#	Article	IF	Citations
37	The Role of Phe-92 in the Ca2+-induced Conformational Transition in the C-terminal Domain of Calmodulin. Journal of Biological Chemistry, 1996, 271, 11284-11290.	1.6	19
38	Extensive Interactions Between Troponins C and I. Zero-Length Footnotes: Crosslinking Of Troponin I and Acetylated Troponin C. Biochemistry, 1995, 34, 10946-10952.	1.2	22
39	Properties of Troponin C Acetylated at Lysine Residues. Biochemistry, 1995, 34, 11872-11881.	1.2	17
40	The Molecular Switch in Troponin C. Advances in Experimental Medicine and Biology, 1993, 332, 117-123.	0.8	7
41	Molecular mechanism of troponin-C function. Journal of Muscle Research and Cell Motility, 1992, 13, 383-393.	0.9	134
42	Zero-length crosslinking procedure with the use of active esters. Analytical Biochemistry, 1990, 185, 131-135.	1.1	750
43	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. Biochemistry, 1990, 29, 299-304.	1.2	84
44	Inhibition of mutant troponin C activity by an intra-domain disulphide bond. Nature, 1990, 345, 132-135.	13.7	114
45	Structure-Function Relations in Troponin C. Chemical Modification Studies. Advances in Experimental Medicine and Biology, 1990, 269, 85-88.	0.8	0
46	Solution conformation of the C-terminal domain of skeletal troponin C. Cation, trifluoperazine and troponin I binding effects. FEBS Journal, 1985, 151, 17-28.	0.2	37
47	Comparative studies on thermostability of calmodulin, skeletal muscle troponin C and their tryptic fragments. FEBS Letters, 1983, 153, 169-173.	1.3	74
48	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. FEBS Journal, 1980, 105, 289-295.	0.2	25
49	Rat liver proteins binding and transferring phosphatidylserine. FEBS Letters, 1979, 104, 253-257.	1.3	14
50	Distribution of troponin C and protein activator of 3â€²,5â€²-cyclic nucleotide phosphodiesterase in vertebrate tissues. Comparative Biochemistry and Physiology Part C: Comparative Pharmacology, 1978, 60, 1-6.	0.2	9
51	Similarity in Ca2+-induced changes between troponin-C and protein activator of 3â€²:5â€²-cyclic nucleotide phosphodiesterase and their tryptic fragments. Biochimica Et Biophysica Acta - Biomembranes, 1977, 485, 124-133.	1.4	97
52	Degradation of TN-C component of troponin by trypsin. Biochimica Et Biophysica Acta (BBA) - Protein Structure, 1977, 490, 216-224.	1.7	32