Madeline A Shea

List of Publications by Year
in descending order

58 papers	4,497 citations	172457 29 h-index	149698 56 g-index
58 all docs	58 docs citations	58 times ranked	4163 citing authors

#	Article	IF	Citations
1	Novel <i>CALM3</i> Variant Causing Calmodulinopathy With Variable Expressivity in a 4-Generation Family. Circulation: Arrhythmia and Electrophysiology, 2022, 15, CIRCEP121010572.	4.8	11
2	Ca2+-saturated calmodulin binds tightly to the N-terminal domain of A-type fibroblast growth factor homologous factors. Journal of Biological Chemistry, 2021, 296, 100458.	3.4	9
3	NaV1.2 EFL domain allosterically enhances Ca2+ binding to sites I and II of WT and pathogenic calmodulin mutants bound to the channel CTD. Structure, 2021, 29, 1339-1356.e7.	3.3	3
4	MICAL1 constrains cardiac stress responses and protects against disease by oxidizing CaMKII. Journal of Clinical Investigation, 2020, 130, 4663-4678.	8.2	23
5	Backbone resonance assignments of complexes of apo human calmodulin bound to IQ motif peptides of voltage-dependent sodium channels NaV1.1, NaV1.4 and NaV1.7. Biomolecular NMR Assignments, 2018, 12, 283-289.	0.8	8
6	The Nkd EF-hand domain modulates divergent wnt signaling outputs in zebrafish. Developmental Biology, 2018, 434, 63-73.	2.0	3
7	Calcium triggers reversal of calmodulin on nested anti-parallel sites in the IQ motif of the neuronal voltage-dependent sodium channel Na V 1.2. Biophysical Chemistry, 2017, 224, 1-19.	2.8	24
8	Backbone and side-chain resonance assignments of (Ca2+)4â€“calmodulin bound to beta calcineurin A CaMBD peptide. Biomolecular NMR Assignments, 2017, 11, 275-280.	0.8	0
9	Backbone resonance assignments of complexes of human voltage-dependent sodium channel NaV1.2 IQ motif peptide bound to apo calmodulin and to the C-domain fragment of apo calmodulin. Biomolecular NMR Assignments, 2017, 11, 297-303.	0.8	6
10	Opposing orientations of the anti-psychotic drug trifluoperazine selected by alternate conformations of M144 in calmodulin. Proteins: Structure, Function and Bioinformatics, 2015, 83, 989-996.	2.6	11
11	Calcium-dependent energetics of calmodulin domain interactions with regulatory regions of the Ryanodine Receptor Type 1 (RyR1). Biophysical Chemistry, 2014, 193-194, 35-49.	2.8	8
12	Calmodulin and PI(3,4,5)P ₃ cooperatively bind to the Itk pleckstrin homology domain to promote efficient calcium signaling and IL-17A production. Science Signaling, 2014, 7, ra74.	3.6	22
13	Calcium-Mediated Reversal of CaM on the Nav 1.2 IQ Motif: Nested Anti-Parallel Sites. Biophysical Journal, 2014, 106, 48a.	0.5	1
14	Calcium-Mediated Tailspin of Calmodulin on the IQ Motif of the Neuronal Voltage-Dependent Sodium Channel Nav1.2. Biophysical Journal, 2013, 104, 14a.	0.5	1
15	Structural and Energetic Determinants of Apo Calmodulin Binding to the IQ Motif of the NaV1.2 Voltage-Dependent Sodium Channel. Structure, 2011, 19, 733-747.	3.3	78
16	Thermodynamic linkage between calmodulin domains binding calcium and contiguous sites in the C-terminal tail of CaV1.2. Biophysical Chemistry, 2011, 159, 172-187.	2.8	32
17	Introduction: Twenty five years of the Gibbs Conference on Biothermodynamics. Biophysical Chemistry, 2011, 159, 1-5.	2.8	0
18	Recognition of Î²â€“calcineurin by the domains of calmodulin: Thermodynamic and structural evidence for distinct roles. Proteins: Structure, Function and Bioinformatics, 2011, 79, 765-786.	2.6	30

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19	Allosteric effects of the antipsychotic drug trifluoperazine on the energetics of calcium binding by calmodulin. Proteins: Structure, Function and Bioinformatics, 2010, 78, 2265-2282.	2.6	26
20	Calmodulin Regulation of the Neuronal Voltage-Dependent Sodium Channel. Biophysical Journal, 2010, 98, 310a.	0.5	2
21	Energetics of calmodulin domain interactions with the calmodulin binding domain of CaMKII. Proteins: Structure, Function and Bioinformatics, 2009, 76, 47-61.	2.6	39
22	Biochemical properties of V91G calmodulin: A calmodulin point mutation that deregulates muscle contraction in Drosophila. Protein Science, 2009, 13, 3285-3297.	7.6	10
23	Chapter 21 Thermodynamics and Conformational Change Governing Domainâ€“Domain Interactions of Calmodulin. Methods in Enzymology, 2009, 466, 503-526.	1.0	11
24	Interdomain cooperativity of calmodulin bound to melittin preferentially increases calcium affinity of sites I and II. Proteins: Structure, Function and Bioinformatics, 2008, 71, 1792-1812.	2.6	31
25	A Dynamic Pathway for Calcium-Independent Activation of CaMKII by Methionine Oxidation. Cell, 2008, 133, 462-474.	28.9	951
26	The Neuronal Voltage-Dependent Sodium Channel Type II IQ Motif Lowers the Calcium Affinity of the C-Domain of Calmodulin. Biochemistry, 2008, 47, 112-123.	2.5	49
27	HEXIM1 is a promiscuous double-stranded RNA-binding protein and interacts with RNAs in addition to 7SK in cultured cells. Nucleic Acids Research, 2007, 35, 2503-2512.	14.5	50
28	Displacement of Î±-Actinin from the NMDA Receptor NR1 C0 Domain By Ca2+/Calmodulin Promotes CaMKII Binding. Biochemistry, 2007, 46, 8485-8497.	2.5	42
29	The NMDA Receptor NR1 C1 Region Bound to Calmodulin: Structural Insights into Functional Differences between Homologous Domains. Structure, 2007, 15, 1603-1617.	3.3	81
30	Calcium Binding to Calmodulin Mutants Having Domain-Specific Effects on the Regulation of Ion Channels. Biochemistry, 2006, 45, 14311-14324.	2.5	12
31	PU.1 Binding to ets Motifs within the Equine Infectious Anemia Virus Long Terminal Repeat (LTR) Enhancer: Regulation of LTR Activity and Virus Replication in Macrophages. Journal of Virology, 2004, 78, 3407-3418.	3.4	17
32	Apo-Calmodulin Binds with its C-terminal Domain to the N-Methyl-d-aspartate Receptor NR1 C0 Region. Journal of Biological Chemistry, 2004, 279, 2166-2175.	3.4	39
33	Basic interdomain boundary residues in calmodulin decrease calcium affinity of sites I and II by stabilizing helix-helix interactions. Proteins: Structure, Function and Bioinformatics, 2003, 50, 381-391.	2.6	24
34	Lobe-dependent Regulation of Ryanodine Receptor Type 1 by Calmodulin. Journal of Biological Chemistry, 2002, 277, 40862-40870.	3.4	60
35	Regulation of Calcium/Calmodulin-dependent Protein Kinase II Docking toN-Methyl-d-aspartate Receptors by Calcium/Calmodulin and Î±-Actinin. Journal of Biological Chemistry, 2002, 277, 48441-48448.	3.4	124
36	Calcium-Induced Conformational Switching ofParameciumCalmodulin Provides Evidence for Domain Couplingâ€. Biochemistry, 2002, 41, 14158-14166.	2.5	45

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37	An Interdomain Linker Increases the Thermostability and Decreases the Calcium Affinity of the Calmodulin N-Domainâ€. Biochemistry, 2002, 41, 15-20.	2.5	55
38	Calcium Binding to Calmodulin Mutants Monitored by Domain-Specific Intrinsic Phenylalanine and Tyrosine Fluorescence. Biophysical Journal, 2002, 83, 2767-2780.	0.5	131
39	Mutation of Tyr138Disrupts the Structural Coupling between the Opposing Domains in Vertebrate Calmodulinâ€. Biochemistry, 2001, 40, 9605-9617.	2.5	36
40	ParameciumCalmodulin Mutants Defective in Ion Channel Regulation Associate with Melittin in the Absence of Calcium but Require It for Tertiary Collapseâ€. Biochemistry, 2001, 40, 896-903.	2.5	16
41	Phenylalanine fluorescence studies of calcium binding to N-domain fragments ofParameciumcalmodulin mutants show increased calcium affinity correlates with increased disorder. Protein Science, 2001, 10, 1758-1768.	7.6	55
42	Proteolytic footprinting titrations for estimating ligand-binding constants and detecting pathways of conformational switching of calmodulin. Methods in Enzymology, 2000, 323, 254-301.	1.0	23
43	ParameciumCalmodulin Mutants Defective in Ion Channel Regulation Can Bind Calcium and Undergo Calcium-Induced Conformational Switchingâ€. Biochemistry, 2000, 39, 6881-6890.	2.5	19
44	Interactions between Domains of Apo Calmodulin Alter Calcium Binding and Stabilityâ€. Biochemistry, 1998, 37, 4244-4253.	2.5	112
45	Calcium binding decreases the stokes radius of calmodulin and mutants R74A, R90A, and R90G. Biophysical Journal, 1996, 71, 3407-3420.	0.5	46
46	Calcium-Induced Interactions of Calmodulin Domains Revealed by Quantitative Thrombin Footprinting of Arg37 and Arg106â€. Biochemistry, 1996, 35, 2943-2957.	2.5	60
47	Discontinuous Equilibrium Titrations of Cooperative Calcium Binding to Calmodulin Monitored by 1-D 1H-Nuclear Magnetic Resonance Spectroscopy. Biochemistry, 1995, 34, 10676-10689.	2.5	52
48	Quantitative endoproteinase GluC footprinting of cooperative Ca2+ binding to calmodulin: proteolytic susceptibility of e31 and e87 indicates interdomain interactions. Biochemistry, 1995, 34, 1179-1196.	2.5	93
49	Bohr Effects of the Partially-Ligated (CN-met) Intermediates of Hemoglobin as Probed by Quaternary Assembly. Biochemistry, 1994, 33, 10345-10357.	2.5	32
50	[19] Analysis of site-specific interaction parameters in protein-DNA complexes. Methods in Enzymology, 1992, 210, 405-425.	1.0	20
51	Identification of the intermediate allosteric species in human hemoglobin reveals a molecular code for cooperative switching.. Proceedings of the National Academy of Sciences of the United States of America, 1991, 88, 1110-1114.	7.1	44
52	Subunit hybridization studies of partially ligated cyanomethemoglobins using a cryogenic method. Biophysical Chemistry, 1990, 35, 97-103.	2.8	57
53	[9] Quantitative DNase footprint titration: A method for studying protein-DNA interactions. Methods in Enzymology, 1986, 130, 132-181.	1.0	346
54	Energetics of cooperative protein-DNA interactions: comparison between quantitative deoxyribonuclease footprint titration and filter binding. Biochemistry, 1986, 25, 7344-7354.	2.5	127

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55	"Footprint" titrations yield valid thermodynamic isotherms.. Proceedings of the National Academy of Sciences of the United States of America, 1986, 83, 8462-8466.	7.1	145
56	The OR control system of bacteriophage lambda. Journal of Molecular Biology, 1985, 181, 211-230.	4.2	475
57	Free energy coupling within macromolecules. Journal of Molecular Biology, 1983, 170, 223-242.	4.2	125
58	Quantitative model for gene regulation by lambda phage repressor.. Proceedings of the National Academy of Sciences of the United States of America, 1982, 79, 1129-1133.	7.1	545