

Martin J Cann

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/624951/publications.pdf>

Version: 2024-02-01

46
papers

3,046
citations

279487

23
h-index

253896

43
g-index

49
all docs

49
docs citations

49
times ranked

2948
citing authors

#	ARTICLE	IF	CITATIONS
1	Soluble Adenylyl Cyclase as an Evolutionarily Conserved Bicarbonate Sensor. <i>Science</i> , 2000, 289, 625-628.	6.0	771
2	Cytosolic adenylyl cyclase defines a unique signaling molecule in mammals. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1999, 96, 79-84.	3.3	487
3	A Europium Complex That Selectively Stains Nucleoli of Cells. <i>Journal of the American Chemical Society</i> , 2006, 128, 2294-2299.	6.6	259
4	The <i>Pseudomonas aeruginosa</i> Chp chemosensory system regulates intracellular cAMP levels by modulating adenylyl cyclase activity. <i>Molecular Microbiology</i> , 2010, 76, 889-904.	1.2	146
5	Design, synthesis and evaluation of ratiometric probes for hydrogencarbonate based on europium emission. <i>Organic and Biomolecular Chemistry</i> , 2004, 2, 1624.	1.5	131
6	Synthesis and characterisation of highly emissive and kinetically stable lanthanide complexes suitable for usage in cellulose™. <i>Organic and Biomolecular Chemistry</i> , 2005, 3, 1013-1024.	1.5	124
7	CO ₂ directly modulates connexin 26 by formation of carbamate bridges between subunits. <i>ELife</i> , 2013, 2, e01213.	2.8	103
8	A Defined Subset of Adenylyl Cyclases Is Regulated by Bicarbonate Ion. <i>Journal of Biological Chemistry</i> , 2003, 278, 35033-35038.	1.6	89
9	Ratiometric probes for hydrogencarbonate analysis in intracellular or extracellular environments using europium luminescence. <i>Chemical Communications</i> , 2002, , 1930-1931.	2.2	77
10	Modulation of Global Low-Frequency Motions Underlies Allosteric Regulation: Demonstration in CRP/FNR Family Transcription Factors. <i>PLoS Biology</i> , 2013, 11, e1001651.	2.6	71
11	Luminescent nonacoordinate cationic lanthanide complexes as potential cellular imaging and reactive probes. <i>Organic and Biomolecular Chemistry</i> , 2003, 1, 905-907.	1.5	66
12	Regulation of prokaryotic adenylyl cyclases by CO ₂ . <i>Biochemical Journal</i> , 2006, 396, 215-218.	1.7	49
13	The intracellular immune receptor Rx1 regulates the DNA-binding activity of a Golden2-like transcription factor. <i>Journal of Biological Chemistry</i> , 2018, 293, 3218-3233.	1.6	44
14	Stimulation of Mammalian G-protein-responsive Adenylyl Cyclases by Carbon Dioxide. <i>Journal of Biological Chemistry</i> , 2009, 284, 784-791.	1.6	43
15	Dynamic Transmission of Protein Allostery without Structural Change: Spatial Pathways or Global Modes?. <i>Biophysical Journal</i> , 2015, 109, 1240-1250.	0.2	41
16	The identification of carbon dioxide mediated protein post-translational modifications. <i>Nature Communications</i> , 2018, 9, 3092.	5.8	41
17	The Role of Protein-Ligand Contacts in Allosteric Regulation of the <i>Escherichia coli</i> Catabolite Activator Protein. <i>Journal of Biological Chemistry</i> , 2015, 290, 22225-22235.	1.6	37
18	Crystal Structure and Regulation Mechanisms of the CyaB Adenylyl Cyclase from the Human Pathogen <i>Pseudomonas aeruginosa</i> . <i>Journal of Molecular Biology</i> , 2012, 416, 271-286.	2.0	36

#	ARTICLE	IF	CITATIONS
19	The Potato Nucleotide-binding Leucine-rich Repeat (NLR) Immune Receptor Rx1 Is a Pathogen-dependent DNA-deforming Protein. <i>Journal of Biological Chemistry</i> , 2015, 290, 24945-24960.	1.6	36
20	A subset of GAF domains are evolutionarily conserved sodium sensors. <i>Molecular Microbiology</i> , 2007, 64, 461-472.	1.2	31
21	Synthesis of 5'-amino-5'-deoxyguanosine-5'-N-phosphoramidate and its enzymatic incorporation at the 5'-termini of RNA molecules. <i>Chemical Communications</i> , 2007, , 5096.	2.2	27
22	The Crystal Structures of Apo and cAMP-Bound GlxR from <i>Corynebacterium glutamicum</i> Reveal Structural and Dynamic Changes upon cAMP Binding in CRP/FNR Family Transcription Factors. <i>PLoS ONE</i> , 2014, 9, e113265.	1.1	27
23	A new family of adenylyl cyclase genes in the male germline of <i>Drosophila melanogaster</i> . <i>Development Genes and Evolution</i> , 2000, 210, 200-206.	0.4	24
24	A Nucleotide Phosphatase Activity in the Nucleotide Binding Domain of an Orphan Resistance Protein from Rice. <i>Journal of Biological Chemistry</i> , 2012, 287, 4023-4032.	1.6	22
25	Ï”Ï”PT: a comprehensive toolbox for the analysis of protein motion. <i>BMC Bioinformatics</i> , 2013, 14, 183.	1.2	21
26	Global low-frequency motions in protein allostery: CAP as a model system. <i>Biophysical Reviews</i> , 2015, 7, 175-182.	1.5	21
27	Bicarbonate Stimulated Adenylyl Cyclases. <i>IUBMB Life</i> , 2004, 56, 529-534.	1.5	18
28	Elevated Carbon Dioxide Blunts Mammalian cAMP Signaling Dependent on Inositol 1,4,5-Triphosphate Receptor-mediated Ca ²⁺ Release. <i>Journal of Biological Chemistry</i> , 2012, 287, 26291-26301.	1.6	18
29	Hypercapnia modulates cAMP signalling and cystic fibrosis transmembrane conductance regulator-dependent anion and fluid secretion in airway epithelia. <i>Journal of Physiology</i> , 2016, 594, 1643-1661.	1.3	18
30	Signalling through cyclic nucleotide monophosphates in cyanobacteria. <i>New Phytologist</i> , 2004, 161, 23-34.	3.5	17
31	Sodium regulation of GAF domain function. <i>Biochemical Society Transactions</i> , 2007, 35, 1032-1034.	1.6	17
32	The Tomato Nucleotide-binding Leucine-rich Repeat Immune Receptor I-2 Couples DNA-binding to Nucleotide-binding Domain Nucleotide Exchange. <i>Journal of Biological Chemistry</i> , 2016, 291, 1137-1147.	1.6	17
33	Cloning and characterization of a <i>Drosophila</i> adenylyl cyclase homologous to mammalian type IX. <i>FEBS Letters</i> , 1997, 413, 104-108.	1.3	15
34	Bicarbonate-sensitive soluble and transmembrane adenylyl cyclases in peripheral chemoreceptors. <i>Respiratory Physiology and Neurobiology</i> , 2013, 188, 83-93.	0.7	14
35	Ubiquitin is a carbon dioxide-binding protein. <i>Science Advances</i> , 2021, 7, eabi5507.	4.7	13
36	Ecto-5'-Nucleotidase, Adenosine and Transmembrane Adenylyl Cyclase Signalling Regulate Basal Carotid Body Chemoafferent Outflow and Establish the Sensitivity to Hypercapnia. <i>Advances in Experimental Medicine and Biology</i> , 2015, 860, 279-289.	0.8	13

#	ARTICLE	IF	CITATIONS
37	A DNA-Binding Bromodomain-Containing Protein Interacts with and Reduces Rx1-Mediated Immune Response to Potato Virus X. <i>Plant Communications</i> , 2020, 1, 100086.	3.6	10
38	Opposing modulation of Cx26 gap junctions and hemichannels by CO ₂ . <i>Journal of Physiology</i> , 2021, 599, 103-118.	1.3	10
39	Carbon Dioxide and the Carbamate Post-Translational Modification. <i>Frontiers in Molecular Biosciences</i> , 2022, 9, 825706.	1.6	9
40	6 Genetic characterization of adenylyl cyclase function. <i>Advances in Second Messenger and Phosphoprotein Research</i> , 1997, 32, 121-135.	4.5	8
41	Restricted expression of a truncated adenylyl cyclase in the cephalic furrow of <i>Drosophila melanogaster</i> . <i>Development Genes and Evolution</i> , 2000, 210, 34-40.	0.4	7
42	A methodology for carbamate post-translational modification discovery and its application in <i>Escherichia coli</i> . <i>Interface Focus</i> , 2021, 11, 20200028.	1.5	5
43	Identification of Transmembrane Adenylyl Cyclase Isoforms. <i>Methods in Enzymology</i> , 2002, 345, 150-159.	0.4	3
44	Predicting Protein Homodimer Allosteric Ligand Binding through Multiscale Dynamics. <i>Biophysical Journal</i> , 2013, 104, 227a.	0.2	0
45	Multi-scale Approaches to Dynamical Transmission of Protein Allostery. , 2015, , 141-152.		0
46	Carbon dioxide detection in biological systems. <i>Interface Focus</i> , 2021, 11, 20210001.	1.5	0