

Alexandre Chenal

List of Publications by Year in descending order

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86
papers

2,451
citations

159585

30
h-index

223800

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93
all docs

93
docs citations

93
times ranked

2400
citing authors

#	ARTICLE	IF	CITATIONS
1	Type III Secretion Effectors of the IpaH Family Are E3 Ubiquitin Ligases. <i>Cell Host and Microbe</i> , 2007, 1, 77-83.	11.0	271
2	RTX Calcium Binding Motifs Are Intrinsically Disordered in the Absence of Calcium. <i>Journal of Biological Chemistry</i> , 2009, 284, 1781-1789.	3.4	123
3	Structural and Functional Characterization of an Essential RTX Subdomain of <i>Bordetella pertussis</i> Adenylate Cyclase Toxin. <i>Journal of Biological Chemistry</i> , 2006, 281, 16914-16926.	3.4	91
4	Cellular Functions and X-ray Structure of Anthrolysin O, a Cholesterol-dependent Cytolysin Secreted by <i>Bacillus anthracis</i> . <i>Journal of Biological Chemistry</i> , 2009, 284, 14645-14656.	3.4	86
5	Membrane Protein Insertion Regulated by Bringing Electrostatic and Hydrophobic Interactions into Play. <i>Journal of Biological Chemistry</i> , 2002, 277, 43425-43432.	3.4	75
6	Interaction between the two subdomains of the C-terminal part of the botulinum neurotoxin A is essential for the generation of protective antibodies. <i>FEBS Letters</i> , 2004, 572, 299-306.	2.8	66
7	Calcium-Induced Folding and Stabilization of the Intrinsically Disordered RTX Domain of the CyaA Toxin. <i>Biophysical Journal</i> , 2010, 99, 3744-3753.	0.5	64
8	Characterization of the Regions Involved in the Calcium-Induced Folding of the Intrinsically Disordered RTX Motifs from the <i>Bordetella pertussis</i> Adenylate Cyclase Toxin. <i>Journal of Molecular Biology</i> , 2010, 397, 534-549.	4.2	61
9	Concerted Protonation of Key Histidines Triggers Membrane Interaction of the Diphtheria Toxin T Domain. <i>Journal of Biological Chemistry</i> , 2007, 282, 24239-24245.	3.4	59
10	<i>Clostridium septicum</i> alpha-toxin forms pores and induces rapid cell necrosis. <i>Toxicon</i> , 2010, 55, 61-72.	1.6	59
11	Membrane Interaction of Botulinum Neurotoxin A Translocation (T) Domain. <i>Journal of Biological Chemistry</i> , 2008, 283, 27668-27676.	3.4	55
12	Deciphering Membrane Insertion of the Diphtheria Toxin T Domain by Specular Neutron Reflectometry and Solid-State NMR Spectroscopy. <i>Journal of Molecular Biology</i> , 2009, 391, 872-883.	4.2	54
13	Identification of a Region That Assists Membrane Insertion and Translocation of the Catalytic Domain of <i>Bordetella pertussis</i> CyaA Toxin. <i>Journal of Biological Chemistry</i> , 2012, 287, 9200-9212.	3.4	52
14	MEMHDX: an interactive tool to expedite the statistical validation and visualization of large HDX-MS datasets. <i>Bioinformatics</i> , 2016, 32, 3413-3419.	4.1	52
15	Calcium, Acylation, and Molecular Confinement Favor Folding of <i>Bordetella pertussis</i> Adenylate Cyclase CyaA Toxin into a Monomeric and Cytotoxic Form. <i>Journal of Biological Chemistry</i> , 2014, 289, 30702-30716.	3.4	51
16	Calmodulin-Induced Conformational and Hydrodynamic Changes in the Catalytic Domain of <i>Bordetella pertussis</i> Adenylate Cyclase Toxin. <i>Biochemistry</i> , 2010, 49, 318-328.	2.5	49
17	Characterization of a Membrane-active Peptide from the <i>Bordetella pertussis</i> CyaA Toxin. <i>Journal of Biological Chemistry</i> , 2013, 288, 32585-32598.	3.4	48
18	Structural disorder and induced folding within two cereal, ABA stress and ripening (ASR) proteins. <i>Scientific Reports</i> , 2017, 7, 15544.	3.3	47

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19	Conformational States and Thermodynamics of β -Lactalbumin Bound to Membranes: A Case Study of the Effects of pH, Calcium, Lipid Membrane Curvature and Charge. <i>Journal of Molecular Biology</i> , 2005, 349, 890-905.	4.2	46
20	Calcium-induced Folding of Intrinsically Disordered Repeat-in-Toxin (RTX) Motifs via Changes of Protein Charges and Oligomerization States. <i>Journal of Biological Chemistry</i> , 2011, 286, 16997-17004.	3.4	46
21	Structural models of intrinsically disordered and calcium-bound folded states of a protein adapted for secretion. <i>Scientific Reports</i> , 2015, 5, 14223.	3.3	46
22	Characterization of Wild-Type Recombinant Bet v 1a as a Candidate Vaccine against Birch Pollen Allergy. <i>International Archives of Allergy and Immunology</i> , 2005, 136, 239-249.	2.1	45
23	Defining the Interacting Regions between Apomyoglobin and Lipid Membrane by Hydrogen/Deuterium Exchange Coupled to Mass Spectrometry. <i>Journal of Molecular Biology</i> , 2007, 368, 464-472.	4.2	45
24	<i>Bordetella pertussis</i> adenylate cyclase toxin translocation across a tethered lipid bilayer. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 20473-20478.	7.1	45
25	Secondary structure reshuffling modulates glycosyltransferase function at the membrane. <i>Nature Chemical Biology</i> , 2015, 11, 16-18.	8.0	44
26	Molecular Crowding Stabilizes Both the Intrinsically Disordered Calcium-Free State and the Folded Calcium-Bound State of a Repeat in Toxin (RTX) Protein. <i>Journal of the American Chemical Society</i> , 2013, 135, 11929-11934.	13.7	40
27	<i>Clostridium perfringens</i> Iota Toxin. <i>Journal of Biological Chemistry</i> , 2002, 277, 43659-43666.	3.4	39
28	Behavior of the N-Terminal Helices of the Diphtheria Toxin T Domain during the Successive Steps of Membrane Interaction. <i>Biochemistry</i> , 2007, 46, 1878-1887.	2.5	38
29	Disorder-to-Order Transition in the CyaA Toxin RTX Domain: Implications for Toxin Secretion. <i>Toxins</i> , 2015, 7, 1-20.	3.4	38
30	Stability, structural and functional properties of a monomeric, calcium-loaded adenylate cyclase toxin, CyaA, from <i>Bordetella pertussis</i> . <i>Scientific Reports</i> , 2017, 7, 42065.	3.3	38
31	Calmodulin fishing with a structurally disordered bait triggers CyaA catalysis. <i>PLoS Biology</i> , 2017, 15, e2004486.	5.6	31
32	Calcium-dependent disorder-to-order transitions are central to the secretion and folding of the CyaA toxin of <i>Bordetella pertussis</i> , the causative agent of whooping cough. <i>Toxicon</i> , 2018, 149, 37-44.	1.6	29
33	Essential dynamic interdependence of FtsZ and SepF for Z-ring and septum formation in <i>Corynebacterium glutamicum</i> . <i>Nature Communications</i> , 2020, 11, 1641.	12.8	29
34	STRUCTURE AND FUNCTION OF DIPHTHERIA TOXIN: FROM PATHOLOGY TO ENGINEERING. <i>Toxin Reviews</i> , 2002, 21, 321-359.	1.5	27
35	Does fusion of domains from unrelated proteins affect their folding pathways and the structural changes involved in their function? A case study with the diphtheria toxin T domain. <i>Protein Engineering, Design and Selection</i> , 2002, 15, 383-391.	2.1	27
36	Prolonged display or rapid internalization of the IgG-binding protein ZZ anchored to the surface of cells using the diphtheria toxin T domain. <i>Protein Engineering, Design and Selection</i> , 2001, 14, 439-446.	2.1	22

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37	Alteration of the tertiary structure of the major bee venom allergen Api m 1 by multiple mutations is concomitant with low IgE reactivity. <i>Protein Science</i> , 2009, 13, 2970-2978.	7.6	22
38	Membrane-Active Properties of an Amphitropic Peptide from the CyaA Toxin Translocation Region. <i>Toxins</i> , 2017, 9, 369.	3.4	22
39	Post-translational acylation controls the folding and functions of the CyaA RTX toxin. <i>FASEB Journal</i> , 2019, 33, 10065-10076.	0.5	22
40	SEC-SAXS and HDX-MS: A powerful combination. The case of the calcium-binding domain of a bacterial toxin. <i>Biotechnology and Applied Biochemistry</i> , 2018, 65, 62-68.	3.1	21
41	Allosteric Activation of <i>Bordetella pertussis</i> Adenylyl Cyclase by Calmodulin. <i>Journal of Biological Chemistry</i> , 2014, 289, 21131-21141.	3.4	18
42	Anchoring cytokines to tumor cells for the preparation of anticancer vaccines without gene transfection in mice. <i>Journal of Immunotherapy</i> , 2003, 26, 63-71.	2.4	17
43	Anchoring Sites of Fibrillogenic Peptide Hormone Somatostatin-14 on Plasmonic Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2015, 119, 8273-8279.	3.1	17
44	Tryptophan Tight Binding to Gold Nanoparticles Induces Drastic Changes in Indole Ring Raman Markers. <i>Journal of Physical Chemistry C</i> , 2018, 122, 13034-13046.	3.1	17
45	Molecular Basis of Membrane Association by the Phosphatidylinositol Mannosyltransferase PimA Enzyme from <i>Mycobacteria</i> . <i>Journal of Biological Chemistry</i> , 2016, 291, 13955-13963.	3.4	16
46	The Tip of the Four N-Terminal α -Helices of <i>Clostridium sordellii</i> Lethal Toxin Contains the Interaction Site with Membrane Phosphatidylserine Facilitating Small GTPases Glucosylation. <i>Toxins</i> , 2016, 8, 90.	3.4	15
47	Bioengineering of <i>Bordetella pertussis</i> Adenylate Cyclase Toxin for Antigen-Delivery and Immunotherapy. <i>Toxins</i> , 2018, 10, 302.	3.4	15
48	Interactions of apomyoglobin with membranes: Mechanisms and effects on heme uptake. <i>Protein Science</i> , 2007, 16, 391-400.	7.6	14
49	Mean Net Charge of Intrinsically Disordered Proteins: Experimental Determination of Protein Valence by Electrophoretic Mobility Measurements. , 2012, 896, 331-349.		14
50	Synthesis and characterization of tethered lipid assemblies for membrane protein reconstitution (Review). <i>Biointerphases</i> , 2017, 12, 04E301.	1.6	14
51	A High-Affinity Calmodulin-Binding Site in the CyaA Toxin Translocation Domain is Essential for Invasion of Eukaryotic Cells. <i>Advanced Science</i> , 2021, 8, 2003630.	11.2	14
52	The catalytic domains of <i>Clostridium sordellii</i> lethal toxin and related large clostridial glucosylating toxins specifically recognize the negatively charged phospholipids phosphatidylserine and phosphatidic acid. <i>Cellular Microbiology</i> , 2015, 17, 1477-1493.	2.1	13
53	Structure and function of RTX toxins. , 2015, , 677-718.		13
54	The Translocation Domain of Botulinum Neurotoxin A Moderates the Propensity of the Catalytic Domain to Interact with Membranes at Acidic pH. <i>PLoS ONE</i> , 2016, 11, e0153401.	2.5	13

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55	Side Chain Resonances in Static Oriented Proton-Decoupled ¹⁵ N Solid-State NMR Spectra of Membrane Proteins. <i>Journal of the American Chemical Society</i> , 2009, 131, 6340-6341.	13.7	12
56	Large size citrate-reduced gold colloids appear as optimal SERS substrates for cationic peptides. <i>Journal of Raman Spectroscopy</i> , 2017, 48, 30-37.	2.5	11
57	Translocation and calmodulin-activation of the adenylate cyclase toxin (CyaA) of <i>Bordetella pertussis</i> . <i>Pathogens and Disease</i> , 2018, 76, .	2.0	11
58	Estimation of Intrinsically Disordered Protein Shape and Time-Averaged Apparent Hydration in Native Conditions by a Combination of Hydrodynamic Methods. <i>Methods in Molecular Biology</i> , 2012, 896, 163-177.	0.9	9
59	From bulk to plasmonic nanoparticle surfaces: the behavior of two potent therapeutic peptides, octreotide and pasireotide. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 24437-24450.	2.8	9
60	Exposure to <i>Bordetella pertussis</i> adenylate cyclase toxin affects integrin-mediated adhesion and mechanics in alveolar epithelial cells. <i>Biology of the Cell</i> , 2017, 109, 293-311.	2.0	9
61	Functional and structural consequences of epithelial cell invasion by <i>Bordetella pertussis</i> adenylate cyclase toxin. <i>PLoS ONE</i> , 2020, 15, e0228606.	2.5	9
62	Amyloid Fibrils Formed by the Programmed Cell Death Regulator Bcl-xL. <i>Journal of Molecular Biology</i> , 2012, 415, 584-599.	4.2	8
63	Hydrogen/Deuterium Exchange Mass Spectrometry for the Structural Analysis of Detergent-Solubilized Membrane Proteins. <i>Methods in Molecular Biology</i> , 2020, 2127, 339-358.	0.9	8
64	Bacterial kinesin light chain (Bklc) links the Btub cytoskeleton to membranes. <i>Scientific Reports</i> , 2017, 7, 45668.	3.3	7
65	Dissecting the Structural and Chemical Determinants of the "Open-to-Closed" Motion in the Mannosyltransferase PimA from <i>Mycobacteria</i> . <i>Biochemistry</i> , 2020, 59, 2934-2945.	2.5	5
66	Engineering of bacterial toxins for research and medicine. , 2006, , 991-1007.		3
67	The Adenylate Cyclase (CyaA) Toxin from <i>Bordetella pertussis</i> Has No Detectable Phospholipase A (PLA) Activity In Vitro. <i>Toxins</i> , 2019, 11, 111.	3.4	3
68	Development of Conformational Antibodies to Detect Bcl-xL's Amyloid Aggregates in Metal-Induced Apoptotic Neuroblastoma Cells. <i>International Journal of Molecular Sciences</i> , 2020, 21, 7625.	4.1	3
69	Ancrer des cytokines aux cellules cancéreuses à l'aide de la toxine diphtérique : mieux que l'immunothérapie par transfert de gène ? <i>Société De Biologie Journal</i> , 2001, 195, 229-234.	0.3	2
70	<title>Novel cancer vaccines prepared by anchoring cytokines to tumor cells avoiding gene transfection</title>. , 2002, 4625, 118.		1
71	Bee venom phospholipase A2 as a membrane-binding vector for cell surface display or internalization of soluble proteins. <i>Toxicon</i> , 2016, 116, 56-62.	1.6	1
72	Calcium Tightly Regulates Disorder-To-Order Transitions Involved in the Secretion, Folding and Functions of the CyaA Toxin of <i>Bordetella Pertussis</i> , the Causative Agent of Whooping Cough. <i>Biophysical Journal</i> , 2017, 112, 523a.	0.5	1

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73	An Introduction to the Toxins Special Issue on the Adenylate Cyclase Toxin. <i>Toxins</i> , 2018, 10, 386.	3.4	1
74	Interfering with the Host-Pathogen Interaction of <i>Bordetella Pertussis</i> . <i>Biophysical Journal</i> , 2013, 104, 225a-226a.	0.5	0
75	Voltage- and Calcium-Dependent Toxin Translocation Across a Tethered Lipid Bilayer. <i>Biophysical Journal</i> , 2014, 106, 18a.	0.5	0
76	Molecular Crowding Stabilizes Both the Intrinsically Disordered Calcium-Free State and the Folded Calcium-Bound State of an RTX Protein: Implication for Toxin Secretion. <i>Biophysical Journal</i> , 2014, 106, 271a.	0.5	0
77	Deciphering Protein Membrane Interactions Involved in the Translocation Process of a Bacterial Toxin, the Adenylate Cyclase (CyaA) Toxin from <i>B.ÂPertussis</i> . <i>Biophysical Journal</i> , 2015, 108, 497a.	0.5	0
78	Structural Models of an Intrinsically Disordered Protein Adapted for Bacterial Secretion. <i>Biophysical Journal</i> , 2016, 110, 555a.	0.5	0
79	Structural Disorder in Action in a Bacterial Toxin: Secretion, Folding and Host Cell Hijacking. <i>Biophysical Journal</i> , 2018, 114, 428a.	0.5	0
80	Arginine Contributions to the Membrane-Active Properties of an Amphitropic Peptide from the CyaA Toxin Translocation Region. <i>Biophysical Journal</i> , 2018, 114, 263a.	0.5	0
81	Conformational Disorder is Required for Toxin Secretion, Folding and Cell Intoxication. <i>Biophysical Journal</i> , 2019, 116, 45a.	0.5	0
82	Molecular Crowding Effects on the CyaA Toxin RTX Domain: Implication for Toxin Secretion. <i>FASEB Journal</i> , 2015, 29, LB214.	0.5	0
83	Title is missing!. , 2020, 15, e0228606.		0
84	Title is missing!. , 2020, 15, e0228606.		0
85	Title is missing!. , 2020, 15, e0228606.		0
86	Title is missing!. , 2020, 15, e0228606.		0