

Jorge Alegre-Cebollada

List of Publications by Year in descending order

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Version: 2024-02-01

57
papers

2,650
citations

236612

25
h-index

197535

49
g-index

63
all docs

63
docs citations

63
times ranked

3201
citing authors

#	ARTICLE	IF	CITATIONS
1	A Network of Macrophages Supports Mitochondrial Homeostasis in the Heart. <i>Cell</i> , 2020, 183, 94-109.e23.	13.5	360
2	Single-molecule paleoenzymology probes the chemistry of resurrected enzymes. <i>Nature Structural and Molecular Biology</i> , 2011, 18, 592-596.	3.6	182
3	S-Glutathionylation of Cryptic Cysteines Enhances Titin Elasticity by Blocking Protein Folding. <i>Cell</i> , 2014, 156, 1235-1246.	13.5	170
4	Protein Folding Drives Disulfide Formation. <i>Cell</i> , 2012, 151, 794-806.	13.5	158
5	Fungal ribotoxins: molecular dissection of a family of natural killers. <i>FEMS Microbiology Reviews</i> , 2007, 31, 212-237.	3.9	126
6	Direct observation of disulfide isomerization in a single protein. <i>Nature Chemistry</i> , 2011, 3, 882-887.	6.6	121
7	Nicotinamide for the treatment of heart failure with preserved ejection fraction. <i>Science Translational Medicine</i> , 2021, 13, .	5.8	109
8	Nanomechanics of HaloTag Tethers. <i>Journal of the American Chemical Society</i> , 2013, 135, 12762-12771.	6.6	108
9	Force dependency of biochemical reactions measured by single-molecule force-clamp spectroscopy. <i>Nature Protocols</i> , 2013, 8, 1261-1276.	5.5	101
10	Isopeptide Bonds Block the Mechanical Extension of Pili in Pathogenic <i>Streptococcus pyogenes</i> . <i>Journal of Biological Chemistry</i> , 2010, 285, 11235-11242.	1.6	94
11	The behavior of sea anemone actinoporins at the water-membrane interface. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2011, 1808, 2275-2288.	1.4	76
12	Disulfide isomerization reactions in titin immunoglobulin domains enable a mode of protein elasticity. <i>Nature Communications</i> , 2018, 9, 185.	5.8	70
13	Single-molecule Force Spectroscopy Approach to Enzyme Catalysis. <i>Journal of Biological Chemistry</i> , 2010, 285, 18961-18966.	1.6	67
14	Sea Anemone Actinoporins: The Transition from a Folded Soluble State to a Functionally Active Membrane-Bound Oligomeric Pore. <i>Current Protein and Peptide Science</i> , 2007, 8, 558-572.	0.7	63
15	CnaA domains in bacterial pili are efficient dissipaters of large mechanical shocks. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 2490-2495.	3.3	60
16	Calorimetric Scrutiny of Lipid Binding by Sticholysin II Toxin Mutants. <i>Journal of Molecular Biology</i> , 2008, 382, 920-930.	2.0	51
17	An Abl-FBP17 mechanosensing system couples local plasma membrane curvature and stress fiber remodeling during mechanoadaptation. <i>Nature Communications</i> , 2019, 10, 5828.	5.8	50
18	Detergent-resistant membranes are platforms for actinoporin pore-forming activity on intact cells. <i>FEBS Journal</i> , 2006, 273, 863-871.	2.2	49

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19	Three-dimensional structure of the actinoporin sticholysin I. Influence of long-distance effects on protein function. <i>Archives of Biochemistry and Biophysics</i> , 2013, 532, 39-45.	1.4	47
20	A HaloTag-TEV genetic cassette for mechanical phenotyping of proteins from tissues. <i>Nature Communications</i> , 2020, 11, 2060.	5.8	42
21	Infrared Spectroscopy Study on the Conformational Changes Leading to Pore Formation of the Toxin Sticholysin II. <i>Biophysical Journal</i> , 2007, 93, 3191-3201.	0.2	39
22	Specific interactions of sticholysin I with model membranes: An NMR study. <i>Proteins: Structure, Function and Bioinformatics</i> , 2010, 78, 1959-1970.	1.5	36
23	Silent mutations at the 5' end of the cDNA of actinoporins from the sea anemone <i>Stichodactyla helianthus</i> allow their heterologous overproduction in <i>Escherichia coli</i> . <i>Journal of Biotechnology</i> , 2007, 127, 211-221.	1.9	35
24	Phenotypic selection and characterization of randomly produced non-haemolytic mutants of the toxic sea anemone protein sticholysin II. <i>FEBS Letters</i> , 2004, 575, 14-18.	1.3	34
25	Mechanochemical evolution of the giant muscle protein titin as inferred from resurrected proteins. <i>Nature Structural and Molecular Biology</i> , 2017, 24, 652-657.	3.6	30
26	The Therapeutic Potential of Fungal Ribotoxins. <i>Current Pharmaceutical Biotechnology</i> , 2008, 9, 153-160.	0.9	28
27	Protein Hydrogels: The Swiss Army Knife for Enhanced Mechanical and Bioactive Properties of Biomaterials. <i>Nanomaterials</i> , 2021, 11, 1656.	1.9	27
28	¹ H, ¹³ C, and ¹⁵ N NMR assignments of the actinoporin Sticholysin I. <i>Biomolecular NMR Assignments</i> , 2009, 3, 5-7.	0.4	24
29	Conformational Plasticity of the Essential Membrane-associated Mannosyltransferase PimA from <i>Mycobacteria</i> . <i>Journal of Biological Chemistry</i> , 2013, 288, 29797-29808.	1.6	24
30	Protein haploinsufficiency drivers identify MYBPC3 variants that cause hypertrophic cardiomyopathy. <i>Journal of Biological Chemistry</i> , 2021, 297, 100854.	1.6	23
31	Intrinsic local disorder and a network of charge-charge interactions are key to actinoporin membrane disruption and cytotoxicity. <i>FEBS Journal</i> , 2011, 278, 2080-2089.	2.2	21
32	Synergistic Action of Actinoporin Isoforms from the Same Sea Anemone Species Assembled into Functionally Active Heteropores. <i>Journal of Biological Chemistry</i> , 2016, 291, 14109-14119.	1.6	21
33	Protein nanomechanics in biological context. <i>Biophysical Reviews</i> , 2021, 13, 435-454.	1.5	21
34	Protein Thermodynamic Destabilization in the Assessment of Pathogenicity of a Variant of Uncertain Significance in Cardiac Myosin Binding Protein C. <i>Journal of Cardiovascular Translational Research</i> , 2020, 13, 867-877.	1.1	18
35	Identifying Sequential Substrate Binding at the Single-Molecule Level by Enzyme Mechanical Stabilization. <i>ACS Nano</i> , 2015, 9, 3996-4005.	7.3	16
36	Concurrent atomic force spectroscopy. <i>Communications Physics</i> , 2019, 2, .	2.0	16

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37	Nanomechanical Phenotypes in Cardiac Myosin-Binding Protein C Mutants That Cause Hypertrophic Cardiomyopathy. <i>ACS Nano</i> , 2021, 15, 10203-10216.	7.3	16
38	¹ H, ¹³ C, and ¹⁵ N NMR assignments of StnII-Y111N, a highly impaired mutant of the sea anemone actinoporin Sticholysin II. <i>Biomolecular NMR Assignments</i> , 2010, 4, 69-72.	0.4	14
39	Altered Thiol Chemistry in Human Amyotrophic Lateral Sclerosis-linked Mutants of Superoxide Dismutase 1. <i>Journal of Biological Chemistry</i> , 2014, 289, 26722-26732.	1.6	14
40	Redox regulation of protein nanomechanics in health and disease: Lessons from titin. <i>Redox Biology</i> , 2019, 21, 101074.	3.9	13
41	The mechanics of the heart: zooming in on hypertrophic cardiomyopathy and cMyBP ϵ . <i>FEBS Letters</i> , 2022, 596, 703-746.	1.3	12
42	Spontaneous Dimerization of Titin Protein Z1Z2 Domains Induces Strong Nanomechanical Anchoring. <i>Journal of Biological Chemistry</i> , 2012, 287, 20240-20247.	1.6	11
43	A Novel Strategy for Utilizing Voice Coil Servoactuators in Tensile Tests of Low Volume Protein Hydrogels. <i>Macromolecular Materials and Engineering</i> , 2015, 300, 369-376.	1.7	11
44	¹ H, ¹³ C, and ¹⁵ N NMR assignments of StnII-R29Q, a defective lipid binding mutant of the sea anemone actinoporin Sticholysin II. <i>Biomolecular NMR Assignments</i> , 2009, 3, 239-241.	0.4	7
45	Basal oxidation of conserved cysteines modulates cardiac titin stiffness and dynamics. <i>Redox Biology</i> , 2022, 52, 102306.	3.9	7
46	Protease Power Strokes Force Proteins to Unfold. <i>Cell</i> , 2011, 145, 339-340.	13.5	6
47	<i>Lactococcus lactis</i> as a vehicle for the heterologous expression of fungal ribotoxin variants with reduced IgE-binding affinity. <i>Journal of Biotechnology</i> , 2008, 134, 1-8.	1.9	5
48	Correspondence on ϵ Computational prediction of protein subdomain stability in MYBPC3 enables clinical risk stratification in hypertrophic cardiomyopathy and enhances variant interpretation ϵ by Thompson et al.. <i>Genetics in Medicine</i> , 2021, 23, 2009-2010.	1.1	3
49	Halotag Tethers to Study Titin Folding at the Single Molecule Level. <i>Biophysical Journal</i> , 2014, 106, 391a.	0.2	1
50	Solvent Bridging Determines The Molecular Architecture Of The Unfolding Transition State Of A Protein. <i>Biophysical Journal</i> , 2009, 96, 72a-73a.	0.2	0
51	Towards a General Platform to Study Single-Bond Chemistry Under Force. <i>Biophysical Journal</i> , 2012, 102, 11a-12a.	0.2	0
52	Surviving a Bumpy Ride in the Oropharynx: Bacterial Pili as Nano-Seatbelts that Dissipate Mechanical Energy. <i>Biophysical Journal</i> , 2014, 106, 578a.	0.2	0
53	Nanomechanical Phenotypes in Hypertrophic Cardiomyopathy caused by Missense Mutations in Cardiac Myosin-Binding Protein C. <i>Biophysical Journal</i> , 2017, 112, 164a-165a.	0.2	0
54	Specific Cleavage of the Titin Springs In Situ Uncovers the Role of Titin-Based Force in Sarcomere Structure and Muscle Contraction. <i>Biophysical Journal</i> , 2019, 116, 402a.	0.2	0

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55	Independent Tuning of Viscous and Elastic Properties of Protein Biomaterials. Biophysical Journal, 2020, 118, 163a-164a.	0.2	0
56	Crystallographic Structures of Titin Immunoglobulin-Like I21 Domains Involved in Dilated Cardiomyopathy. Biophysical Journal, 2021, 120, 252a.	0.2	0
57	Enzyme Catalysis at the Single-Molecule Level. , 2012, , 149-168.		0