

Montserrat SamsÃ³

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

1,839
citations

279778

23
h-index

330122

37
g-index

42
all docs

42
docs citations

42
times ranked

1480
citing authors

#	ARTICLE	IF	CITATIONS
1	Internal structure and visualization of transmembrane domains of the RyR1 calcium release channel by cryo-EM. <i>Nature Structural and Molecular Biology</i> , 2005, 12, 539-544.	8.2	179
2	Coordinated Movement of Cytoplasmic and Transmembrane Domains of RyR1 upon Gating. <i>PLoS Biology</i> , 2009, 7, e1000085.	5.6	155
3	Membrane proteins: the "Wild West" of structural biology. <i>Trends in Biochemical Sciences</i> , 2003, 28, 137-144.	7.5	129
4	Structural characterization of a dynein motor domain 1 Edited by M. F. Moody. <i>Journal of Molecular Biology</i> , 1998, 276, 927-937.	4.2	127
5	Apocalmodulin and Ca ²⁺ -Calmodulin Bind to Neighboring Locations on the Ryanodine Receptor. <i>Journal of Biological Chemistry</i> , 2002, 277, 1349-1353.	3.4	127
6	Enhanced Excitation-Coupled Calcium Entry in Myotubes Expressing Malignant Hyperthermia Mutation R163C Is Attenuated by Dantrolene. <i>Molecular Pharmacology</i> , 2008, 73, 1203-1212.	2.3	95
7	Structural Characterization of the RyR1-FKBP12 Interaction. <i>Journal of Molecular Biology</i> , 2006, 356, 917-927.	4.2	90
8	25Å... Resolution Structure of a Cytoplasmic Dynein Motor Reveals a Seven-member Planar Ring. <i>Journal of Molecular Biology</i> , 2004, 340, 1059-1072.	4.2	77
9	Use of the hydrophobic probe Nile red for the fluorescent staining of protein bands in sodium dodecyl sulfate-polyacrylamide gels. <i>Analytical Biochemistry</i> , 1991, 199, 169-174.	2.4	74
10	Use of Nile red as a fluorescent probe for the study of the hydrophobic properties of protein-sodium dodecyl sulfate complexes in solution. <i>Analytical Biochemistry</i> , 1991, 199, 162-168.	2.4	72
11	Three-Dimensional Location of the Imperatoxin a Binding Site on the Ryanodine Receptor. <i>Journal of Cell Biology</i> , 1999, 146, 493-500.	5.2	70
12	Evidence for Sodium Dodecyl Sulfate/Protein Complexes Adopting a Necklace Structure. <i>FEBS Journal</i> , 1995, 232, 818-824.	0.2	68
13	Structural mechanism of two gain-of-function cardiac and skeletal RyR mutations at an equivalent site by cryo-EM. <i>Science Advances</i> , 2020, 6, eabb2964.	10.3	49
14	Structural Determinants of Skeletal Muscle Ryanodine Receptor Gating*. <i>Journal of Biological Chemistry</i> , 2013, 288, 6154-6165.	3.4	48
15	Mapping the Ryanodine Receptor FK506-binding Protein Subunit Using Fluorescence Resonance Energy Transfer. <i>Journal of Biological Chemistry</i> , 2010, 285, 19219-19226.	3.4	45
16	Ultrastructural Analysis of Self-Associated RyR2s. <i>Biophysical Journal</i> , 2016, 110, 2651-2662.	0.5	45
17	Of rings and levers: the dynein motor comes of age. <i>Trends in Cell Biology</i> , 2004, 14, 612-619.	7.9	44
18	A cryo-EM-based model of phosphorylation- and FKBP12.6-mediated allosterism of the cardiac ryanodine receptor. <i>Science Signaling</i> , 2017, 10, .	3.6	41

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19	Contributions of Electron Microscopy and Single-Particle Techniques to the Determination of the Ryanodine Receptor Three-Dimensional Structure. <i>Journal of Structural Biology</i> , 1998, 121, 172-180.	2.8	40
20	Amino Acid Residues 4425â€“4621 Localized on the Three-Dimensional Structure of the Skeletal Muscle Ryanodine Receptor. <i>Biophysical Journal</i> , 2000, 78, 1349-1358.	0.5	34
21	Three-dimensional reconstruction of ryanodine receptors. <i>Frontiers in Bioscience - Landmark</i> , 2002, 7, d1464-1474.	3.0	33
22	A guide to the 3D structure of the ryanodine receptor type 1 by cryoEM. <i>Protein Science</i> , 2017, 26, 52-68.	7.6	30
23	Hyaluronic acid grafted nanoparticles of a platinum(<i>ii</i>)â€“silicon(<i>iv</i>) phthalocyanine conjugate for tumor and mitochondria-targeted photodynamic therapy in red light. <i>Journal of Materials Chemistry B</i> , 2018, 6, 7373-7377.	5.8	26
24	A Bayesian method for classification of images from electron micrographs. <i>Journal of Structural Biology</i> , 2002, 138, 157-170.	2.8	18
25	A Flexible Linkage Between the Dynein Motor and its Cargo. <i>Journal of Molecular Biology</i> , 2006, 357, 701-706.	4.2	18
26	3D Mapping of the SPRY2 Domain of Ryanodine Receptor 1 by Single-Particle Cryo-EM. <i>PLoS ONE</i> , 2011, 6, e25813.	2.5	14
27	3D structure of muscle dihydropyridine receptor. <i>European Journal of Translational Myology</i> , 2015, 25, 27.	1.7	14
28	The FKBP12 subunit modifies the long-range allostereism of the ryanodine receptor. <i>Journal of Structural Biology</i> , 2019, 205, 180-188.	2.8	14
29	Do's and Don'ts of Cryo-electron Microscopy: A Primer on Sample Preparation and High Quality Data Collection for Macromolecular 3D Reconstruction. <i>Journal of Visualized Experiments</i> , 2015, , 52311.	0.3	12
30	Three-Dimensional Localization of the $\hat{1}\pm$ and $\hat{1}^2$ Subunits and of the II-III Loop in the Skeletal Muscle L-type Ca ²⁺ Channel. <i>Journal of Biological Chemistry</i> , 2012, 287, 43853-43861.	3.4	10
31	The ArrayGrid: A methodology for applying multiple samples to a single TEM specimen grid. <i>Ultramicroscopy</i> , 2013, 135, 105-112.	1.9	10
32	FRET-Based Localization of Fluorescent Protein Insertions Within the Ryanodine Receptor Type 1. <i>PLoS ONE</i> , 2012, 7, e38594.	2.5	9
33	Ca ²⁺ inactivation of the mammalian ryanodine receptor type 1 in a lipidic environment revealed by cryo-EM. <i>ELife</i> , 2022, 11, .	6.0	9
34	Unfolded structure and reactivity of nucleosome core DNA-histone H2A,H2B complexes in solution as studied by synchrotron radiation X-ray scattering. <i>Biochemistry</i> , 1993, 32, 4609-4614.	2.5	7
35	Purification of Recombinant Wild Type and Mutant Ryanodine Receptors Expressed in HEK293 Cells. <i>Bio-protocol</i> , 2021, 11, e4112.	0.4	4
36	Evidence for Sodium Dodecyl Sulfate/Protein Complexes Adopting a Necklace Structure. <i>FEBS Journal</i> , 1995, 232, 818-824.	0.2	1

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37	Cryo-EM reveals local and global structural rearrangements in RYR mutants. <i>Journal of General Physiology</i> , 2022, 154, .	1.9	1
38	3D structure of muscle dihydropyridine receptor. <i>European Journal of Translational Myology</i> , 2015, 25, .	1.7	0
39	Molecular Clustering of Skeletal and Cardiac Ryanodine Receptors. <i>Microscopy and Microanalysis</i> , 2018, 24, 1232-1233.	0.4	0
40	Cryo-EM catalyzes the exploration of drug selectivity: The CDK7 inhibitor example. <i>Biophysical Journal</i> , 2021, 120, 1304-1305.	0.5	0