

Francesco Zonta

List of Publications by Citations

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30
papers

439
citations

14
h-index

19
g-index

31
ext. papers

560
ext. citations

5.6
avg, IF

3.48
L-index

#	Paper	IF	Citations
30	Permeation pathway of homomeric connexin 26 and connexin 30 channels investigated by molecular dynamics. <i>Journal of Biomolecular Structure and Dynamics</i> , 2012 , 29, 985-98	3.6	44
29	Mitochondrial Thioredoxin System as a Modulator of Cyclophilin D Redox State. <i>Scientific Reports</i> , 2016 , 6, 23071	4.9	37
28	Selection of an ASIC1a-blocking combinatorial antibody that protects cells from ischemic death. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, E7469-E7477 ^{11.5}	11.5	34
27	Bioinformatic and mutational analysis of channelrhodopsin-2 protein cation-conducting pathway. <i>Journal of Biological Chemistry</i> , 2012 , 287, 4818-25	5.4	30
26	Molecular dynamics simulations highlight structural and functional alterations in deafness-related M34T mutation of connexin 26. <i>Frontiers in Physiology</i> , 2014 , 5, 85	4.6	25
25	Design and Characterization of a Human Monoclonal Antibody that Modulates Mutant Connexin 26 Hemichannels Implicated in Deafness and Skin Disorders. <i>Frontiers in Molecular Neuroscience</i> , 2017 , 10, 298	6.1	21
24	Structural evidence for asymmetric ligand binding to transthyretin. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2015 , 71, 1582-92		18
23	The 3.5 Å X-ray structure of the human connexin26 gap junction channel is unlikely that of a fully open channel. <i>Cell Communication and Signaling</i> , 2013 , 11, 15	7.5	18
22	How Local Flexibility Affects Knot Positioning in Ring Polymers. <i>Macromolecules</i> , 2016 , 49, 4656-4662	5.5	16
21	The ataxia related G1107D mutation of the plasma membrane Ca ATPase isoform 3 affects its interplay with calmodulin and the autoinhibition process. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2017 , 1863, 165-173	6.9	16
20	A fully atomistic model of the Cx32 connexon. <i>PLoS ONE</i> , 2008 , 3, e2614	3.7	16
19	Cx32 hemichannel opening by cytosolic Ca ²⁺ is inhibited by the R220X mutation that causes Charcot-Marie-Tooth disease. <i>Human Molecular Genetics</i> , 2018 , 27, 80-94	5.6	14
18	Cues to Opening Mechanisms From Electric Field Excitation of Cx26 Hemichannel and Mutagenesis Studies in HeLa Transfectants. <i>Frontiers in Molecular Neuroscience</i> , 2018 , 11, 170	6.1	14
17	Role of gamma carboxylated Glu47 in connexin 26 hemichannel regulation by extracellular Ca ²⁺ : insight from a local quantum chemistry study. <i>Biochemical and Biophysical Research Communications</i> , 2014 , 445, 10-5	3.4	14
16	Topological signatures of globular polymers. <i>Physical Review Letters</i> , 2011 , 106, 258301	7.4	14
15	A novel PMCA3 mutation in an ataxic patient with hypomorphic phosphomannomutase 2 (PMM2) heterozygote mutations: Biochemical characterization of the pump defect. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2017 , 1863, 3303-3312	6.9	13
14	Slow topological time scale of knotted polymers. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2008 , 41, 122002	2	12

13	Functionality-Independent DNA Encoding of Complex Natural Products. <i>Angewandte Chemie</i> , 2019 , 131, 9355-9362	3.6	11
12	A V1143F mutation in the neuronal-enriched isoform 2 of the PMCA pump is linked with ataxia. <i>Neurobiology of Disease</i> , 2018 , 115, 157-166	7.5	10
11	A potent antagonist antibody targeting connexin hemichannels alleviates Clouston syndrome symptoms in mutant mice. <i>EBioMedicine</i> , 2020 , 57, 102825	8.8	10
10	The p.Cys169Tyr variant of connexin 26 is not a polymorphism. <i>Human Molecular Genetics</i> , 2015 , 24, 2641-2648	5.8	9
9	A Human-Derived Monoclonal Antibody Targeting Extracellular Connexin Domain Selectively Modulates Hemichannel Function. <i>Frontiers in Physiology</i> , 2019 , 10, 392	4.6	8
8	Structural determinants underlying permeant discrimination of the Cx43 hemichannel. <i>Journal of Biological Chemistry</i> , 2019 , 294, 16789-16803	5.4	7
7	Dissecting the role of glutamine in seeding peptide aggregation. <i>Computational and Structural Biotechnology Journal</i> , 2021 , 19, 1595-1602	6.8	7
6	A Potent Anti-SpuE Antibody Allosterically Inhibits Type III Secretion System and Attenuates Virulence of <i>Pseudomonas Aeruginosa</i> . <i>Journal of Molecular Biology</i> , 2019 , 431, 4882-4896	6.5	6
5	Structure and Molecular Dynamics Simulations of Protein Tyrosine Phosphatase Non-Receptor 12 Provide Insights into the Catalytic Mechanism of the Enzyme. <i>International Journal of Molecular Sciences</i> , 2017 , 19,	6.3	5
4	Harnessing the therapeutic potential of antibodies targeting connexin hemichannels. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2021 , 1867, 166047	6.9	5
3	Rapid Assessment of Binding Affinity of SARS-COV-2 Spike Protein to the Human Angiotensin-Converting Enzyme 2 Receptor and to Neutralizing Biomolecules Based on Computer Simulations. <i>Frontiers in Immunology</i> , 2021 , 12, 730099	8.4	3
2	Somatic MIWI2 Hinders Direct Lineage Reprogramming From Fibroblast to Hepatocyte. <i>Stem Cells</i> , 2019 , 37, 803-812	5.8	2
1	A homogeneous dataset of polyglutamine and glutamine rich aggregating peptides simulations. <i>Data in Brief</i> , 2021 , 36, 107109	1.2	