Francesco Zonta

List of Publications by Year in Descending Order

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	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. *Frontiers in Immunology*, **2021**, 12, 730099	8.4	3
29	Harnessing the therapeutic potential of antibodies targeting connexin hemichannels. *Biochimica Et Biophysica Acta - Molecular Basis of Disease*, **2021**, 1867, 166047	6.9	5
28	A homogeneous dataset of polyglutamine and glutamine rich aggregating peptides simulations. *Data in Brief*, **2021**, 36, 107109	1.2	
27	Dissecting the role of glutamine in seeding peptide aggregation. *Computational and Structural Biotechnology Journal*, **2021**, 19, 1595-1602	6.8	7
26	A potent antagonist antibody targeting connexin hemichannels alleviates Clouston syndrome symptoms in mutant mice. *EBioMedicine*, **2020**, 57, 102825	8.8	10
25	Functionality-Independent DNA Encoding of Complex Natural Products. *Angewandte Chemie*, **2019**, 131, 9355-9362	3.6	11
24	Somatic MIWI2 Hinders Direct Lineage Reprogramming From Fibroblast to Hepatocyte. *Stem Cells*, **2019**, 37, 803-812	5.8	2
23	A Human-Derived Monoclonal Antibody Targeting Extracellular Connexin Domain Selectively Modulates Hemichannel Function. *Frontiers in Physiology*, **2019**, 10, 392	4.6	8
22	A Potent Anti-SpuE Antibody Allosterically Inhibits Type III Secretion System and Attenuates Virulence of Pseudomonas Aeruginosa. *Journal of Molecular Biology*, **2019**, 431, 4882-4896	6.5	6
21	Structural determinants underlying permeant discrimination of the Cx43 hemichannel. *Journal of Biological Chemistry*, **2019**, 294, 16789-16803	5.4	7
20	A V1143F mutation in the neuronal-enriched isoform 2 of the PMCA pump is linked with ataxia. *Neurobiology of Disease*, **2018**, 115, 157-166	7.5	10
19	Cx32 hemichannel opening by cytosolic Ca2+ is inhibited by the R220X mutation that causes Charcot-Marie-Tooth disease. *Human Molecular Genetics*, **2018**, 27, 80-94	5.6	14
18	Selection of an ASIC1a-blocking combinatorial antibody that protects cells from ischemic death. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, E7469-E7477	11.5	34
17	Cues to Opening Mechanisms From Electric Field Excitation of Cx26 Hemichannel and Mutagenesis Studies in HeLa Transfectans. *Frontiers in Molecular Neuroscience*, **2018**, 11, 170	6.1	14
16	Structure and Molecular Dynamics Simulations of Protein Tyrosine Phosphatase Non-Receptor 12 Provide Insights into the Catalytic Mechanism of the Enzyme. *International Journal of Molecular Sciences*, **2017**, 19,	6.3	5
15	A novel PMCA3 mutation in an ataxic patient with hypomorphic phosphomannomutase 2 (PMM2) heterozygote mutations: Biochemical characterization of the pump defect. *Biochimica Et Biophysica Acta - Molecular Basis of Disease*, **2017**, 1863, 3303-3312	6.9	13
14	The ataxia related G1107D mutation of the plasma membrane Ca ATPase isoform 3 affects its interplay with calmodulin and the autoinhibition process. *Biochimica Et Biophysica Acta - Molecular Basis of Disease*, **2017**, 1863, 165-173	6.9	16

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13	Design and Characterization of a Human Monoclonal Antibody that Modulates Mutant Connexin 26 Hemichannels Implicated in Deafness and Skin Disorders. *Frontiers in Molecular Neuroscience*, **2017**, 10, 298	6.1	21
12	Mitochondrial Thioredoxin System as a Modulator of Cyclophilin D Redox State. *Scientific Reports*, **2016**, 6, 23071	4.9	37
11	How Local Flexibility Affects Knot Positioning in Ring Polymers. *Macromolecules*, **2016**, 49, 4656-4662	5.5	16
10	Structural evidence for asymmetric ligand binding to transthyretin. *Acta Crystallographica Section D: Biological Crystallography*, **2015**, 71, 1582-92		18
9	The p.Cys169Tyr variant of connexin 26 is not a polymorphism. *Human Molecular Genetics*, **2015**, 24, 2641-8	5.8	9
8	Role of gamma carboxylated Glu47 in connexin 26 hemichannel regulation by extracellular Ca□+: insight from a local quantum chemistry study. *Biochemical and Biophysical Research Communications*, **2014**, 445, 10-5	3.4	14
7	Molecular dynamics simulations highlight structural and functional alterations in deafness-related M34T mutation of connexin 26. *Frontiers in Physiology*, **2014**, 5, 85	4.6	25
6	The 3.5 □gstr□m X-ray structure of the human connexin26 gap junction channel is unlikely that of a fully open channel. *Cell Communication and Signaling*, **2013**, 11, 15	7.5	18
5	Permeation pathway of homomeric connexin 26 and connexin 30 channels investigated by molecular dynamics. *Journal of Biomolecular Structure and Dynamics*, **2012**, 29, 985-98	3.6	44
4	Bioinformatic and mutational analysis of channelrhodopsin-2 protein cation-conducting pathway. *Journal of Biological Chemistry*, **2012**, 287, 4818-25	5.4	30
3	Topological signatures of globular polymers. *Physical Review Letters*, **2011**, 106, 258301	7.4	14
2	Slow topological time scale of knotted polymers. *Journal of Physics A: Mathematical and Theoretical*, **2008**, 41, 122002	2	12
1	A fully atomistic model of the Cx32 connexon. *PLoS ONE*, **2008**, 3, e2614	3.7	16