## Pietro Sormanni

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

56<br/>papers1,838<br/>citations24<br/>h-index42<br/>g-index61<br/>ext. papers2,481<br/>ext. citations9<br/>avg, IF5.14<br/>L-index

#	Paper	IF	Citations
56	Current advances in biopharmaceutical informatics: guidelines, impact and challenges in the computational developability assessment of antibody therapeutics <i>MAbs</i> , <b>2022</b> , 14, 2020082	6.6	6
55	Assessment of Therapeutic Antibody Developability by Combinations of In Vitro and In Silico Methods. <i>Methods in Molecular Biology</i> , <b>2022</b> , 2313, 57-113	1.4	8
54	An aggregation inhibitor specific to oligomeric intermediates of AII2 derived from phage display libraries of stable, small proteins <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2022</b> , 119, e2121966119	11.5	1
53	Conformational Entropy as a Potential Liability of Computationally Designed Antibodies. <i>Biomolecules</i> , <b>2022</b> , 12, 718	5.9	2
52	An open-source automated PEG precipitation assay to measure the relative solubility of proteins with low material requirement. <i>Scientific Reports</i> , <b>2021</b> , 11, 21932	4.9	3
51	Computational maturation of a single-domain antibody against AB2 aggregation <i>Chemical Science</i> , <b>2021</b> , 12, 13940-13948	9.4	2
50	Comparative Studies in the A30P and A53T Ebynuclein Strains to Investigate the Molecular Origins of Parkinson's Disease. <i>Frontiers in Cell and Developmental Biology</i> , <b>2021</b> , 9, 552549	5.7	5
49	Systematic Activity Maturation of a Single-Domain Antibody with Non-canonical Amino Acids through Chemical Mutagenesis. <i>Cell Chemical Biology</i> , <b>2021</b> , 28, 70-77.e5	8.2	6
48	Rationally Designed Bicyclic Peptides Prevent the Conversion of A½2 Assemblies Into Fibrillar Structures. <i>Frontiers in Neuroscience</i> , <b>2021</b> , 15, 623097	5.1	1
47	Quantifying misfolded protein oligomers as drug targets and biomarkers in Alzheimer and Parkinson diseases. <i>Nature Reviews Chemistry</i> , <b>2021</b> , 5, 277-294	34.6	10
46	Neuroserpin and transthyretin are extracellular chaperones that preferentially inhibit amyloid formation. <i>Science Advances</i> , <b>2021</b> , 7, eabf7606	14.3	4
45	Pairs of amino acids at the P- and A-sites of the ribosome predictably and causally modulate translation-elongation rates. <i>Journal of Molecular Biology</i> , <b>2020</b> , 432, 166696	6.5	3
44	Rational design of a conformation-specific antibody for the quantification of Albligomers.  Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 13509-1351.	8 <sup>11.5</sup>	26
43	Rationally Designed Antibodies as Research Tools to Study the Structure-Toxicity Relationship of Amyloid-Digomers. <i>International Journal of Molecular Sciences</i> , <b>2020</b> , 21,	6.3	7
42	Inherent Biophysical Properties Modulate the Toxicity of Soluble Amyloidogenic Light Chains. <i>Journal of Molecular Biology</i> , <b>2020</b> , 432, 845-860	6.5	10
41	Proteome-wide observation of the phenomenon of life on the edge of solubility. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 1015-1020	11.5	52
40	A rationally designed bicyclic peptide remodels AB2 aggregation in vitro and reduces its toxicity in a worm model of Alzheimerts disease. <i>Scientific Reports</i> , <b>2020</b> , 10, 15280	4.9	4

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21	A natural product inhibits the initiation of Esynuclein aggregation and suppresses its toxicity.  Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E1009-E1017.	7 <sup>11.5</sup>	177
20	Selective targeting of primary and secondary nucleation pathways in AB2 aggregation using a rational antibody scanning method. <i>Science Advances</i> , <b>2017</b> , 3, e1700488	14.3	81
19	Simultaneous quantification of protein order and disorder. <i>Nature Chemical Biology</i> , <b>2017</b> , 13, 339-342	11.7	83
18	Oxetane Grafts Installed Site-Selectively on Native Disulfides to Enhance Protein Stability and Activity In Vivo. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 14963-14967	16.4	32
17	Oxetane Grafts Installed Site-Selectively on Native Disulfides to Enhance Protein Stability and Activity In Vivo. <i>Angewandte Chemie</i> , <b>2017</b> , 129, 15159-15163	3.6	8
16	Rapid and accurate in silico solubility screening of a monoclonal antibody library. <i>Scientific Reports</i> , <b>2017</b> , 7, 8200	4.9	63
15	Delivery of Native Proteins into C. elegans Using a Transduction Protocol Based on Lipid Vesicles. <i>Scientific Reports</i> , <b>2017</b> , 7, 15045	4.9	11
14	A protein homeostasis signature in healthy brains recapitulates tissue vulnerability to Alzheimer <b>b</b> disease. <i>Science Advances</i> , <b>2016</b> , 2, e1600947	14.3	68
13	Rational design of mutations that change the aggregation rate of a protein while maintaining its native structure and stability. <i>Scientific Reports</i> , <b>2016</b> , 6, 25559	4.9	41
12	Targeting disordered proteins with small molecules using entropy. <i>Trends in Biochemical Sciences</i> , <b>2015</b> , 40, 491-6	10.3	58
11	A Rational Design Strategy for the Selective Activity Enhancement of a Molecular Chaperone toward a Target Substrate. <i>Biochemistry</i> , <b>2015</b> , 54, 5103-12	3.2	22
10	The s2D method: simultaneous sequence-based prediction of the statistical populations of ordered and disordered regions in proteins. <i>Journal of Molecular Biology</i> , <b>2015</b> , 427, 982-996	6.5	60
9	MonteGrappa: An iterative Monte Carlo program to optimize biomolecular potentials in simplified models. <i>Computer Physics Communications</i> , <b>2015</b> , 186, 93-104	4.2	10
8	Rational design of antibodies targeting specific epitopes within intrinsically disordered proteins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, 9902-7	11.5	78
7	The CamSol method of rational design of protein mutants with enhanced solubility. <i>Journal of Molecular Biology</i> , <b>2015</b> , 427, 478-90	6.5	208
6	Understanding the frustration arising from the competition between function, misfolding, and aggregation in a globular protein. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, 14141-6	11.5	36
5	Iterative derivation of effective potentials to sample the conformational space of proteins at atomistic scale. <i>Journal of Chemical Physics</i> , <b>2014</b> , 140, 195101	3.9	4
4	Subdomain architecture and stability of a giant repeat protein. <i>Journal of Physical Chemistry B</i> , <b>2013</b> , 117, 13029-37	3.4	8

## LIST OF PUBLICATIONS

3	Fibrillogenic propensity of the GroEL apical domain: a Janus-faced minichaperone. <i>FEBS Letters</i> , <b>2012</b> , 586, 1120-7	3.8	13
2	Paratope Prediction using Convolutional and Recurrent Neural Networks		1
1	Fragment-based computational design of antibodies targeting structured epitopes		3