

Francesco Antonio Aprile

List of Publications by Citations

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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.

51
papers

2,416
citations

23
h-index

49
g-index

58
ext. papers

3,066
ext. citations

9.6
avg, IF

4.97
L-index

#	Paper	IF	Citations
51	Direct observation of the interconversion of normal and toxic forms of β synuclein. <i>Cell</i> , 2012 , 149, 1048-56	58.2	588
50	Structural characterization of toxic oligomers that are kinetically trapped during β synuclein fibril formation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, E1994-2003	11.5	278
49	The CamSol method of rational design of protein mutants with enhanced solubility. <i>Journal of Molecular Biology</i> , 2015 , 427, 478-90	6.5	208
48	A natural product inhibits the initiation of β synuclein aggregation and suppresses its toxicity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, E1009-E1017	11.5	177
47	Selective targeting of primary and secondary nucleation pathways in A β 2 aggregation using a rational antibody scanning method. <i>Science Advances</i> , 2017 , 3, e1700488	14.3	81
46	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> , 2015 , 112, 9902-7	11.5	78
45	Different soluble aggregates of A β 2 can give rise to cellular toxicity through different mechanisms. <i>Nature Communications</i> , 2019 , 10, 1541	17.4	71
44	Nanobodies raised against monomeric β synuclein distinguish between fibrils at different maturation stages. <i>Journal of Molecular Biology</i> , 2013 , 425, 2397-411	6.5	66
43	Third generation antibody discovery methods: in silico rational design. <i>Chemical Society Reviews</i> , 2018 , 47, 9137-9157	58.5	64
42	Targeting Amyloid Aggregation: An Overview of Strategies and Mechanisms. <i>International Journal of Molecular Sciences</i> , 2018 , 19,	6.3	63
41	Microfluidic Diffusion Analysis of the Sizes and Interactions of Proteins under Native Solution Conditions. <i>ACS Nano</i> , 2016 , 10, 333-41	16.7	61
40	Hsp70 oligomerization is mediated by an interaction between the interdomain linker and the substrate-binding domain. <i>PLoS ONE</i> , 2013 , 8, e67961	3.7	60
39	Multistep Inhibition of β synuclein Aggregation and Toxicity in Vitro and in Vivo by Trodusquemine. <i>ACS Chemical Biology</i> , 2018 , 13, 2308-2319	4.9	52
38	Structure of a low-population binding intermediate in protein-RNA recognition. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 7171-6	11.5	46
37	Inhibition of β synuclein Fibril Elongation by Hsp70 Is Governed by a Kinetic Binding Competition between β synuclein Species. <i>Biochemistry</i> , 2017 , 56, 1177-1180	3.2	45
36	Methods of probing the interactions between small molecules and disordered proteins. <i>Cellular and Molecular Life Sciences</i> , 2017 , 74, 3225-3243	10.3	44
35	The molecular chaperones DNAJB6 and Hsp70 cooperate to suppress β synuclein aggregation. <i>Scientific Reports</i> , 2017 , 7, 9039	4.9	40

34	Sequence Specificity in the Entropy-Driven Binding of a Small Molecule and a Disordered Peptide. <i>Journal of Molecular Biology</i> , 2017 , 429, 2772-2779	6.5	38
33	Soluble aggregates present in cerebrospinal fluid change in size and mechanism of toxicity during Alzheimer's disease progression. <i>Acta Neuropathologica Communications</i> , 2019 , 7, 120	7.3	35
32	Cell surface localised Hsp70 is a cancer specific regulator of clathrin-independent endocytosis. <i>FEBS Letters</i> , 2015 , 589, 2747-53	3.8	30
31	Small-molecule sequestration of amyloid- β s a drug discovery strategy for Alzheimer's disease. <i>Science Advances</i> , 2020 , 6,	14.3	28
30	Rational design of a conformation-specific antibody for the quantification of A β oligomers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 13509-13518	11.5	26
29	Structure of a low-population intermediate state in the release of an enzyme product. <i>ELife</i> , 2015 , 4,	8.9	25
28	A Rational Design Strategy for the Selective Activity Enhancement of a Molecular Chaperone toward a Target Substrate. <i>Biochemistry</i> , 2015 , 54, 5103-12	3.2	22
27	Microfluidic Diffusion Viscometer for Rapid Analysis of Complex Solutions. <i>Analytical Chemistry</i> , 2016 , 88, 3488-93	7.8	20
26	The relationship between aggregation and toxicity of polyglutamine-containing ataxin-3 in the intracellular environment of Escherichia coli. <i>PLoS ONE</i> , 2012 , 7, e51890	3.7	17
25	Biophysical approaches for the study of interactions between molecular chaperones and protein aggregates. <i>Chemical Communications</i> , 2015 , 51, 14425-34	5.8	16
24	Structure and dynamics of the integrin LFA-1 I-domain in the inactive state underlie its inside-out/outside-in signaling and allosteric mechanisms. <i>Structure</i> , 2015 , 23, 745-53	5.2	15
23	A Water-Bridged Cysteine-Cysteine Redox Regulation Mechanism in Bacterial Protein Tyrosine Phosphatases. <i>Chem</i> , 2017 , 3, 665-677	16.2	13
22	A Rationally Designed Hsp70 Variant Rescues the Aggregation-Associated Toxicity of Human IAPP in Cultured Pancreatic Islet β Cells. <i>International Journal of Molecular Sciences</i> , 2018 , 19,	6.3	11
21	Enhancement of the Anti-Aggregation Activity of a Molecular Chaperone Using a Rationally Designed Post-Translational Modification. <i>ACS Central Science</i> , 2019 , 5, 1417-1424	16.8	11
20	Delivery of Native Proteins into C. elegans Using a Transduction Protocol Based on Lipid Vesicles. <i>Scientific Reports</i> , 2017 , 7, 15045	4.9	11
19	Cooperative Assembly of Hsp70 Subdomain Clusters. <i>Biochemistry</i> , 2018 , 57, 3641-3649	3.2	8
18	Identification of an RNA Polymerase III Regulator Linked to Disease-Associated Protein Aggregation. <i>Molecular Cell</i> , 2017 , 65, 1096-1108.e6	17.6	7
17	Rationally Designed Antibodies as Research Tools to Study the Structure-Toxicity Relationship of Amyloid- β Oligomers. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	7

16	NMR characterization of the conformational fluctuations of the human lymphocyte function-associated antigen-1 I-domain. <i>Protein Science</i> , 2014 , 23, 1596-606	6.3	7
15	<i>C. elegans</i> expressing D76N β microglobulin: a model for in vivo screening of drug candidates targeting amyloidosis. <i>Scientific Reports</i> , 2019 , 9, 19960	4.9	6
14	Systematic Activity Maturation of a Single-Domain Antibody with Non-canonical Amino Acids through Chemical Mutagenesis. <i>Cell Chemical Biology</i> , 2021 , 28, 70-77.e5	8.2	6
13	Automated Behavioral Analysis of Large <i>C. elegans</i> Populations Using a Wide Field-of-view Tracking Platform. <i>Journal of Visualized Experiments</i> , 2018 ,	1.6	6
12	Targeting Amyloid Aggregation: An Overview of Strategies and Mechanisms		5
11	Comparative Studies in the A30P and A53T β Synuclein Strains to Investigate the Molecular Origins of Parkinson's Disease. <i>Frontiers in Cell and Developmental Biology</i> , 2021 , 9, 552549	5.7	5
10	Small molecule sequestration of amyloid- β s a drug discovery strategy for Alzheimer's disease		4
9	A rationally designed bicyclic peptide remodels A β 2 aggregation in vitro and reduces its toxicity in a worm model of Alzheimer's disease. <i>Scientific Reports</i> , 2020 , 10, 15280	4.9	4
8	The Diagnostic Potential of Amyloidogenic Proteins. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	4
7	The binding of the small heat-shock protein B-crystallin to fibrils of β Synuclein is driven by entropic forces. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	2
6	Man does not live by intrinsically unstructured proteins alone: The role of structured regions in aggregation. <i>BioEssays</i> , 2021 , 43, e2100178	4.1	1
5	Rationally Designed Bicyclic Peptides Prevent the Conversion of A β 2 Assemblies Into Fibrillar Structures. <i>Frontiers in Neuroscience</i> , 2021 , 15, 623097	5.1	1
4	Modulation of amyloid- β aggregation by metal complexes with a dual binding mode and their delivery across the blood-brain barrier using focused ultrasound. <i>Chemical Science</i> , 2021 , 12, 9485-9493	9.4	1
3	The cellular modifier MOAG-4/SERF drives amyloid formation through charge complementation. <i>EMBO Journal</i> , 2021 , 40, e107568	13	0
2	The polyglutamine protein ataxin-3 enables normal growth under heat shock conditions in the methylotrophic yeast <i>Pichia pastoris</i> . <i>Scientific Reports</i> , 2017 , 7, 13417	4.9	
1	O2-02-02: TARGETING AMYLOID FORMATION USING RATIONALLY DESIGNED ANTIBODIES 2018 , 14, P611-P611		