

# Nunilo Cremades

## List of Publications by Citations

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49  
papers

3,662  
citations

31  
h-index

55  
g-index

55  
ext. papers

4,511  
ext. citations

8.7  
avg, IF

5.05  
L-index

#	Paper	IF	Citations
49	Direct observation of the interconversion of normal and toxic forms of $\beta$ -synuclein. <i>Cell</i> , <b>2012</b> , 149, 1048-56	56.2	588
48	Structural basis of membrane disruption and cellular toxicity by $\beta$ -synuclein oligomers. <i>Science</i> , <b>2017</b> , 358, 1440-1443	33.3	301
47	Structural characterization of toxic oligomers that are kinetically trapped during $\beta$ -synuclein fibril formation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, E1994-2003	11.5	278
46	Alpha-Synuclein Oligomers Interact with Metal Ions to Induce Oxidative Stress and Neuronal Death in Parkinson's Disease. <i>Antioxidants and Redox Signaling</i> , <b>2016</b> , 24, 376-91	8.4	192
45	A natural product inhibits the initiation of $\beta$ -synuclein aggregation and suppresses its toxicity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2017</b> , 114, E1009-E1017	11.5	177
44	Antiparasitic drug nitazoxanide inhibits the pyruvate oxidoreductases of <i>Helicobacter pylori</i> , selected anaerobic bacteria and parasites, and <i>Campylobacter jejuni</i> . <i>Antimicrobial Agents and Chemotherapy</i> , <b>2007</b> , 51, 868-76	5.9	167
43	Kinetic model of the aggregation of alpha-synuclein provides insights into prion-like spreading. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, E1206-15	11.5	130
42	Structure and properties of a complex of $\beta$ -synuclein and a single-domain camelid antibody. <i>Journal of Molecular Biology</i> , <b>2010</b> , 402, 326-43	6.5	119
41	Identification of pharmacological chaperones as potential therapeutic agents to treat phenylketonuria. <i>Journal of Clinical Investigation</i> , <b>2008</b> , 118, 2858-67	15.9	119
40	Ca <sup>2+</sup> is a key factor in $\beta$ -synuclein-induced neurotoxicity. <i>Journal of Cell Science</i> , <b>2016</b> , 129, 1792-801	5.3	106
39	Targeting the intrinsically disordered structural ensemble of $\beta$ -synuclein by small molecules as a potential therapeutic strategy for Parkinson's disease. <i>PLoS ONE</i> , <b>2014</b> , 9, e87133	3.7	98
38	On the mechanism of nonspecific inhibitors of protein aggregation: dissecting the interactions of alpha-synuclein with Congo red and lacmoid. <i>Biochemistry</i> , <b>2009</b> , 48, 8322-34	3.2	84
37	Best Practices for Generating and Using Alpha-Synuclein Pre-Formed Fibrils to Model Parkinson's Disease in Rodents. <i>Journal of Parkinson's Disease</i> , <b>2018</b> , 8, 303-322	5.3	80
36	Single-Molecule Imaging of Individual Amyloid Protein Aggregates in Human Biofluids. <i>ACS Chemical Neuroscience</i> , <b>2016</b> , 7, 399-406	5.7	75
35	Single-molecule FRET studies on alpha-synuclein oligomerization of Parkinson's disease genetically related mutants. <i>Scientific Reports</i> , <b>2015</b> , 5, 16696	4.9	69
34	Population of nonnative states of lysozyme variants drives amyloid fibril formation. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 7737-7743	16.4	67
33	Nanobodies raised against monomeric $\beta$ -synuclein distinguish between fibrils at different maturation stages. <i>Journal of Molecular Biology</i> , <b>2013</b> , 425, 2397-411	6.5	66

32	Fast flow microfluidics and single-molecule fluorescence for the rapid characterization of $\beta$ synuclein oligomers. <i>Analytical Chemistry</i> , <b>2015</b> , 87, 8818-26	7.8	65
31	Hsp70 oligomerization is mediated by an interaction between the interdomain linker and the substrate-binding domain. <i>PLoS ONE</i> , <b>2013</b> , 8, e67961	3.7	60
30	Structural Characteristics of $\beta$ synuclein Oligomers. <i>International Review of Cell and Molecular Biology</i> , <b>2017</b> , 329, 79-143	6	57
29	Defining $\beta$ synuclein species responsible for Parkinson's disease phenotypes in mice. <i>Journal of Biological Chemistry</i> , <b>2019</b> , 294, 10392-10406	5.4	55
28	Amyloid- $\beta$ and $\beta$ synuclein Decrease the Level of Metal-Catalyzed Reactive Oxygen Species by Radical Scavenging and Redox Silencing. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 3966-9	16.4	52
27	Flavodoxin:quinone reductase (FqrB): a redox partner of pyruvate:ferredoxin oxidoreductase that reversibly couples pyruvate oxidation to NADPH production in <i>Helicobacter pylori</i> and <i>Campylobacter jejuni</i> . <i>Journal of Bacteriology</i> , <b>2007</b> , 189, 4764-73	3.5	52
26	Multistep Inhibition of $\beta$ synuclein Aggregation and Toxicity in Vitro and in Vivo by Trodusquemine. <i>ACS Chemical Biology</i> , <b>2018</b> , 13, 2308-2319	4.9	52
25	The contribution of biophysical and structural studies of protein self-assembly to the design of therapeutic strategies for amyloid diseases. <i>Neurobiology of Disease</i> , <b>2018</b> , 109, 178-190	7.5	51
24	Local cooperativity in an amyloidogenic state of human lysozyme observed at atomic resolution. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 15580-8	16.4	49
23	Inhibition of $\beta$ synuclein Fibril Elongation by Hsp70 Is Governed by a Kinetic Binding Competition between $\beta$ synuclein Species. <i>Biochemistry</i> , <b>2017</b> , 56, 1177-1180	3.2	45
22	Insights in the (un)structural organization of <i>Bacillus pasteurii</i> UreG, an intrinsically disordered GTPase enzyme. <i>Molecular BioSystems</i> , <b>2012</b> , 8, 220-8		40
21	Discovery of specific flavodoxin inhibitors as potential therapeutic agents against <i>Helicobacter pylori</i> infection. <i>ACS Chemical Biology</i> , <b>2009</b> , 4, 928-38	4.9	39
20	The release of toxic oligomers from $\beta$ synuclein fibrils induces dysfunction in neuronal cells. <i>Nature Communications</i> , <b>2021</b> , 12, 1814	17.4	39
19	Towards a new therapeutic target: <i>Helicobacter pylori</i> flavodoxin. <i>Biophysical Chemistry</i> , <b>2005</b> , 115, 267-365	3.6	37
18	Cell surface localised Hsp70 is a cancer specific regulator of clathrin-independent endocytosis. <i>FEBS Letters</i> , <b>2015</b> , 589, 2747-53	3.8	30
17	The native-state ensemble of proteins provides clues for folding, misfolding and function. <i>Trends in Biochemical Sciences</i> , <b>2006</b> , 31, 494-6	10.3	29
16	The flavodoxin from <i>Helicobacter pylori</i> : structural determinants of thermostability and FMN cofactor binding. <i>Biochemistry</i> , <b>2008</b> , 47, 627-39	3.2	28
15	Trodusquemine displaces protein misfolded oligomers from cell membranes and abrogates their cytotoxicity through a generic mechanism. <i>Communications Biology</i> , <b>2020</b> , 3, 435	6.7	23

14	Common conformational changes in flavodoxins induced by FMN and anion binding: the structure of <i>Helicobacter pylori</i> apoflavodoxin. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2007</b> , 69, 581-94	4.2	22
13	Filling small, empty protein cavities: structural and energetic consequences. <i>Journal of Molecular Biology</i> , <b>2006</b> , 358, 701-12	6.5	21
12	Molten globule and native state ensemble of <i>Helicobacter pylori</i> flavodoxin: can crowding, osmolytes or cofactors stabilize the native conformation relative to the molten globule?. <i>Biophysical Journal</i> , <b>2008</b> , 95, 1913-27	2.9	17
11	Novel Small Molecules Targeting the Intrinsically Disordered Structural Ensemble of $\beta$ Synuclein Protect Against Diverse $\beta$ Synuclein Mediated Dysfunctions. <i>Scientific Reports</i> , <b>2019</b> , 9, 16947	4.9	14
10	The role of water in the primary nucleation of protein amyloid aggregation. <i>Biophysical Chemistry</i> , <b>2021</b> , 269, 106520	3.5	13
9	Conformational stability of <i>Helicobacter pylori</i> flavodoxin: fit to function at pH 5. <i>Journal of Biological Chemistry</i> , <b>2008</b> , 283, 2883-95	5.4	12
8	Multiplicity of $\beta$ Synuclein Aggregated Species and Their Possible Roles in Disease. <i>International Journal of Molecular Sciences</i> , <b>2020</b> , 21,	6.3	12
7	The extent of protein hydration dictates the preference for heterogeneous or homogeneous nucleation generating either parallel or antiparallel $\beta$ sheet $\beta$ Synuclein aggregates. <i>Chemical Science</i> , <b>2020</b> , 11, 11902-11914	9.4	9
6	Preparation of $\beta$ Synuclein Amyloid Assemblies for Toxicity Experiments. <i>Methods in Molecular Biology</i> , <b>2018</b> , 1779, 45-60	1.4	8
5	$\beta$ Helical peptidic scaffolds to target $\beta$ Synuclein toxic species with nanomolar affinity. <i>Nature Communications</i> , <b>2021</b> , 12, 3752	17.4	5
4	Ca <sup>2+</sup> is a key factor in $\beta$ Synuclein-induced neurotoxicity. <i>Development (Cambridge)</i> , <b>2016</b> , 143, e1.1-e1.1	6.6	3
3	All-or-none amyloid disassembly via chaperone-triggered fibril unzipping favors clearance of $\beta$ Synuclein toxic species. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2021</b> , 118,	11.5	3
2	Effects of oligomer toxicity, fibril toxicity and fibril spreading in synucleinopathies.. <i>Cellular and Molecular Life Sciences</i> , <b>2022</b> , 79, 174	10.3	3
1	Alpha-Synuclein1-12		