Francesco Bemporad

List of Publications by Year
in descending order

39 papers	1,436 citations	393982 19 h-index	315357 38 g-index
42 all docs	42 docs citations	42 times ranked	2057 citing authors

#	Article	IF	Citations
1	Protein Misfolded Oligomers: Experimental Approaches, Mechanism of Formation, and Structure-Toxicity Relationships. Chemistry and Biology, 2012, 19, 315-327.	6.2	239
2	Protein folding: Defining a â€œstandardâ€•set of experimental conditions and a preliminary kinetic data set of two-state proteins. Protein Science, 2005, 14, 602-616.	3.1	207
3	Evidence for a Mechanism of Amyloid Formation Involving Molecular Reorganisation within Native-like Precursor Aggregates. Journal of Molecular Biology, 2005, 351, 910-922.	2.0	129
4	Assessing the role of aromatic residues in the amyloid aggregation of human muscle acylphosphatase. Protein Science, 2006, 15, 862-870.	3.1	107
5	Sequence and Structural Determinants of Amyloid Fibril Formation. Accounts of Chemical Research, 2006, 39, 620-627.	7.6	102
6	Amyloid Formation of a Protein in the Absence of Initial Unfolding and Destabilization of the Native State. Biophysical Journal, 2005, 89, 4234-4244.	0.2	67
7	Transthyretin Inhibits Primary and Secondary Nucleations of Amyloid-Î² Peptide Aggregation and Reduces the Toxicity of Its Oligomers. Biomacromolecules, 2020, 21, 1112-1125.	2.6	59
8	Structure, conformational stability, and enzymatic properties of acylphosphatase from the hyperthermophile Sulfolobus solfataricus. Proteins: Structure, Function and Bioinformatics, 2005, 62, 64-79.	1.5	43
9	Exploring the Mechanism of Formation of Native-like and Precursor Amyloid Oligomers for the Native Acylphosphatase from Sulfolobus solfataricus. Structure, 2006, 14, 993-1001.	1.6	36
10	Biological function in a non-native partially folded state of a protein. EMBO Journal, 2008, 27, 1525-35.	3.5	32
11	â€œNativeâ€like aggregationâ€•of the acylphosphatase from Sulfolobus solfataricus and its biological implications. FEBS Letters, 2009, 583, 2630-2638.	1.3	32
12	Rapid oligomer formation of human muscle acylphosphatase induced by heparan sulfate. Nature Structural and Molecular Biology, 2012, 19, 547-554.	3.6	28
13	The Degree of Structural Protection at the Edge Î²-Strands Determines the Pathway of Amyloid Formation in Globular Proteins. Journal of the American Chemical Society, 2008, 130, 4295-4302.	6.6	26
14	Characterizing Intermolecular Interactions That Initiate Native-Like Protein Aggregation. Biophysical Journal, 2012, 102, 2595-2604.	0.2	26
15	Structural and Dynamics Characteristics of Acylphosphatase from Sulfolobus solfataricus in the Monomeric State and in the Initial Native-like Aggregates. Journal of Biological Chemistry, 2010, 285, 14689-14700.	1.6	23
16	Mutations of Profilin-1 Associated with Amyotrophic Lateral Sclerosis Promote Aggregation Due to Structural Changes of Its Native State. ACS Chemical Biology, 2015, 10, 2553-2563.	1.6	23
17	Molecular insights into cell toxicity of a novel familial amyloidogenic variant of Î²2â€microglobulin. Journal of Cellular and Molecular Medicine, 2016, 20, 1443-1456.	1.6	23
18	A model for the aggregation of the acylphosphatase from Sulfolobus solfataricus in its native-like state. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2008, 1784, 1986-1996.	1.1	20

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19	Studying the Folding Process of the Acylphosphatase fromSulfolobus solfataricus. A Comparative Analysis with Other Proteins from the Same Superfamilyâ€. Biochemistry, 2004, 43, 9116-9126.	1.2	19
20	1H, 13C and 15N resonance assignments of human muscle acylphosphatase. Biomolecular NMR Assignments, 2012, 6, 27-29.	0.4	16
21	Structure and Dynamics of the Integrin LFA-1 I-Domain in the Inactive State Underlie its Inside-Out/Outside-In Signaling and Allosteric Mechanisms. Structure, 2015, 23, 745-753.	1.6	15
22	The Folding Process of Acylphosphatase from Escherichia coli is Remarkably Accelerated by the Presence of a Disulfide Bond. Journal of Molecular Biology, 2008, 379, 1107-1118.	2.0	14
23	The Folding process of Human Profilin-1, a novel protein associated with familial amyotrophic lateral sclerosis. Scientific Reports, 2015, 5, 12332.	1.6	14
24	Probing conformational changes of monomeric transthyretin with second derivative fluorescence. Scientific Reports, 2019, 9, 10988.	1.6	14
25	A single amino acid mutation affects elicitor and expansins-like activities of cerato-platanin, a non-catalytic fungal protein. PLoS ONE, 2017, 12, e0178337.	1.1	14
26	Edge strand engineering prevents nativeâ€like aggregation in <scp>S</scp>ulfolobusÂsolfataricus acylphosphatase. FEBS Journal, 2014, 281, 4072-4084.	2.2	13
27	From the Evolution of Protein Sequences Able to Resist Self-Assembly to the Prediction of Aggregation Propensity. International Review of Cell and Molecular Biology, 2017, 329, 1-47.	1.6	13
28	Insight into the Folding and Dimerization Mechanisms of the N-Terminal Domain from Human TDP-43. International Journal of Molecular Sciences, 2020, 21, 6259.	1.8	13
29	A Complex Equilibrium among Partially Unfolded Conformations in Monomeric Transthyretin. Biochemistry, 2014, 53, 4381-4392.	1.2	12
30	Stability of an aggregation-prone partially folded state of human profilin-1 correlates with aggregation propensity. Journal of Biological Chemistry, 2018, 293, 10303-10313.	1.6	10
31	Direct Conversion of an Enzyme from Native-like to Amyloid-like Aggregates within Inclusion Bodies. Biophysical Journal, 2017, 112, 2540-2551.	0.2	9
32	NMR characterization of the conformational fluctuations of the human lymphocyte functionâ€associated antigenâ€1 Iâ€domain. Protein Science, 2014, 23, 1596-1606.	3.1	8
33	FRET studies of various conformational states adopted by transthyretin. Cellular and Molecular Life Sciences, 2017, 74, 3577-3598.	2.4	7
34	Amyloid fibril formation by a normally folded protein in the absence of denaturants and agitation. Amyloid: the International Journal of Experimental and Clinical Investigation: the Official Journal of the International Society of Amyloidosis, 2013, 20, 226-232.	1.4	6
35	Identification of Novel 1,3,5-Triphenylbenzene Derivative Compounds as Inhibitors of Hen Lysozyme Amyloid Fibril Formation. International Journal of Molecular Sciences, 2019, 20, 5558.	1.8	6
36	Preliminary characterization of two different crystal forms of acylphosphatase from the hyperthermophile archaeonSulfolobus solfataricus. Acta Crystallographica Section F: Structural Biology Communications, 2005, 61, 144-146.	0.7	3

#	Article	IF	Citations
37	The Transthyretin/Oleuropein Aglycone Complex: A New Tool against TTR Amyloidosis. Pharmaceuticals, 2022, 15, 277.	1.7	3
38	Conversion of the Native N-Terminal Domain of TDP-43 into a Monomeric Alternative Fold with Lower Aggregation Propensity. Molecules, 2022, 27, 4309.	1.7	3
39	Capturing AÎ²42 aggregation in the cell. Journal of Biological Chemistry, 2019, 294, 1488-1489.	1.6	1