

Francesco Bemporad

List of Publications by Year in descending order

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394421

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docs citations

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times ranked

2057
citing authors

#	ARTICLE	IF	CITATIONS
1	Protein Misfolded Oligomers: Experimental Approaches, Mechanism of Formation, and Structure-Toxicity Relationships. <i>Chemistry and Biology</i> , 2012, 19, 315-327.	6.0	239
2	Protein folding: Defining a "standard" set of experimental conditions and a preliminary kinetic data set of two-state proteins. <i>Protein Science</i> , 2005, 14, 602-616.	7.6	207
3	Evidence for a Mechanism of Amyloid Formation Involving Molecular Reorganisation within Native-like Precursor Aggregates. <i>Journal of Molecular Biology</i> , 2005, 351, 910-922.	4.2	129
4	Assessing the role of aromatic residues in the amyloid aggregation of human muscle acylphosphatase. <i>Protein Science</i> , 2006, 15, 862-870.	7.6	107
5	Sequence and Structural Determinants of Amyloid Fibril Formation. <i>Accounts of Chemical Research</i> , 2006, 39, 620-627.	15.6	102
6	Amyloid Formation of a Protein in the Absence of Initial Unfolding and Destabilization of the Native State. <i>Biophysical Journal</i> , 2005, 89, 4234-4244.	0.5	67
7	Transthyretin Inhibits Primary and Secondary Nucleations of Amyloid- β Peptide Aggregation and Reduces the Toxicity of Its Oligomers. <i>Biomacromolecules</i> , 2020, 21, 1112-1125.	5.4	59
8	Structure, conformational stability, and enzymatic properties of acylphosphatase from the hyperthermophile <i>Sulfolobus solfataricus</i> . <i>Proteins: Structure, Function and Bioinformatics</i> , 2005, 62, 64-79.	2.6	43
9	Exploring the Mechanism of Formation of Native-like and Precursor Amyloid Oligomers for the Native Acylphosphatase from <i>Sulfolobus solfataricus</i> . <i>Structure</i> , 2006, 14, 993-1001.	3.3	36
10	Biological function in a non-native partially folded state of a protein. <i>EMBO Journal</i> , 2008, 27, 1525-35.	7.8	32
11	"Native-like aggregation" of the acylphosphatase from <i>Sulfolobus solfataricus</i> and its biological implications. <i>FEBS Letters</i> , 2009, 583, 2630-2638.	2.8	32
12	Rapid oligomer formation of human muscle acylphosphatase induced by heparan sulfate. <i>Nature Structural and Molecular Biology</i> , 2012, 19, 547-554.	8.2	28
13	The Degree of Structural Protection at the Edge β -Strands Determines the Pathway of Amyloid Formation in Globular Proteins. <i>Journal of the American Chemical Society</i> , 2008, 130, 4295-4302.	13.7	26
14	Characterizing Intermolecular Interactions That Initiate Native-Like Protein Aggregation. <i>Biophysical Journal</i> , 2012, 102, 2595-2604.	0.5	26
15	Structural and Dynamics Characteristics of Acylphosphatase from <i>Sulfolobus solfataricus</i> in the Monomeric State and in the Initial Native-like Aggregates. <i>Journal of Biological Chemistry</i> , 2010, 285, 14689-14700.	3.4	23
16	Mutations of Profilin-1 Associated with Amyotrophic Lateral Sclerosis Promote Aggregation Due to Structural Changes of Its Native State. <i>ACS Chemical Biology</i> , 2015, 10, 2553-2563.	3.4	23
17	Molecular insights into cell toxicity of a novel familial amyloidogenic variant of β -microglobulin. <i>Journal of Cellular and Molecular Medicine</i> , 2016, 20, 1443-1456.	3.6	23
18	A model for the aggregation of the acylphosphatase from <i>Sulfolobus solfataricus</i> in its native-like state. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2008, 1784, 1986-1996.	2.3	20

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19	Studying the Folding Process of the Acylphosphatase from <i>Sulfolobus solfataricus</i> . A Comparative Analysis with Other Proteins from the Same Superfamily. <i>Biochemistry</i> , 2004, 43, 9116-9126.	2.5	19
20	¹ H, ¹³ C and ¹⁵ N resonance assignments of human muscle acylphosphatase. <i>Biomolecular NMR Assignments</i> , 2012, 6, 27-29.	0.8	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. <i>Structure</i> , 2015, 23, 745-753.	3.3	15
22	The Folding Process of Acylphosphatase from <i>Escherichia coli</i> is Remarkably Accelerated by the Presence of a Disulfide Bond. <i>Journal of Molecular Biology</i> , 2008, 379, 1107-1118.	4.2	14
23	The Folding process of Human Profilin-1, a novel protein associated with familial amyotrophic lateral sclerosis. <i>Scientific Reports</i> , 2015, 5, 12332.	3.3	14
24	Probing conformational changes of monomeric transthyretin with second derivative fluorescence. <i>Scientific Reports</i> , 2019, 9, 10988.	3.3	14
25	A single amino acid mutation affects elicitor and expansins-like activities of cerato-platanin, a non-catalytic fungal protein. <i>PLoS ONE</i> , 2017, 12, e0178337.	2.5	14
26	Edge strand engineering prevents native-like aggregation in <i>Sulfolobus solfataricus</i> acylphosphatase. <i>FEBS Journal</i> , 2014, 281, 4072-4084.	4.7	13
27	From the Evolution of Protein Sequences Able to Resist Self-Assembly to the Prediction of Aggregation Propensity. <i>International Review of Cell and Molecular Biology</i> , 2017, 329, 1-47.	3.2	13
28	Insight into the Folding and Dimerization Mechanisms of the N-Terminal Domain from Human TDP-43. <i>International Journal of Molecular Sciences</i> , 2020, 21, 6259.	4.1	13
29	A Complex Equilibrium among Partially Unfolded Conformations in Monomeric Transthyretin. <i>Biochemistry</i> , 2014, 53, 4381-4392.	2.5	12
30	Stability of an aggregation-prone partially folded state of human profilin-1 correlates with aggregation propensity. <i>Journal of Biological Chemistry</i> , 2018, 293, 10303-10313.	3.4	10
31	Direct Conversion of an Enzyme from Native-like to Amyloid-like Aggregates within Inclusion Bodies. <i>Biophysical Journal</i> , 2017, 112, 2540-2551.	0.5	9
32	NMR characterization of the conformational fluctuations of the human lymphocyte function-associated antigen-1 domain. <i>Protein Science</i> , 2014, 23, 1596-1606.	7.6	8
33	FRET studies of various conformational states adopted by transthyretin. <i>Cellular and Molecular Life Sciences</i> , 2017, 74, 3577-3598.	5.4	7
34	Amyloid fibril formation by a normally folded protein in the absence of denaturants and agitation. <i>Amyloid: the International Journal of Experimental and Clinical Investigation: the Official Journal of the International Society of Amyloidosis</i> , 2013, 20, 226-232.	3.0	6
35	Identification of Novel 1,3,5-Triphenylbenzene Derivative Compounds as Inhibitors of Hen Lysozyme Amyloid Fibril Formation. <i>International Journal of Molecular Sciences</i> , 2019, 20, 5558.	4.1	6
36	Preliminary characterization of two different crystal forms of acylphosphatase from the hyperthermophile archaeon <i>Sulfolobus solfataricus</i> . <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2005, 61, 144-146.	0.7	3

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37	The Transthyretin/Oleuropein Aglycone Complex: A New Tool against TTR Amyloidosis. <i>Pharmaceuticals</i> , 2022, 15, 277.	3.8	3
38	Conversion of the Native N-Terminal Domain of TDP-43 into a Monomeric Alternative Fold with Lower Aggregation Propensity. <i>Molecules</i> , 2022, 27, 4309.	3.8	3
39	Capturing A β 242 aggregation in the cell. <i>Journal of Biological Chemistry</i> , 2019, 294, 1488-1489.	3.4	1