

Danilo Milardi

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9067820/publications.pdf>

Version: 2024-02-01

118
papers

3,148
citations

117453

34
h-index

205818

48
g-index

120
all docs

120
docs citations

120
times ranked

3632
citing authors

#	ARTICLE	IF	CITATIONS
1	Proteostasis of Islet Amyloid Polypeptide: A Molecular Perspective of Risk Factors and Protective Strategies for Type II Diabetes. <i>Chemical Reviews</i> , 2021, 121, 1845-1893.	23.0	129
2	Cations as Switches of Amyloid-Mediated Membrane Disruption Mechanisms: Calcium and IAPP. <i>Biophysical Journal</i> , 2013, 104, 173-184.	0.2	103
3	Amyloid growth and membrane damage: Current themes and emerging perspectives from theory and experiments on A β 2 and hIAPP. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2018, 1860, 1625-1638.	1.4	103
4	Lipid-Chaperone Hypothesis: A Common Molecular Mechanism of Membrane Disruption by Intrinsically Disordered Proteins. <i>ACS Chemical Neuroscience</i> , 2020, 11, 4336-4350.	1.7	101
5	β -Helical Structures Drive Early Stages of Self-Assembly of Amyloidogenic Amyloid Polypeptide Aggregate Formation in Membranes. <i>Scientific Reports</i> , 2013, 3, 2781.	1.6	91
6	Thermodynamics of the thermal unfolding of azurin. <i>The Journal of Physical Chemistry</i> , 1995, 99, 14864-14870.	2.9	77
7	Carnosine Inhibits A β 42 Aggregation by Perturbing the H β Bond Network in and around the Central Hydrophobic Cluster. <i>ChemBioChem</i> , 2013, 14, 583-592.	1.3	76
8	The Role of Cholesterol in Driving IAPP-Membrane Interactions. <i>Biophysical Journal</i> , 2016, 111, 140-151.	0.2	74
9	Multiple functions of insulin-degrading enzyme: a metabolic crosslight?. <i>Critical Reviews in Biochemistry and Molecular Biology</i> , 2017, 52, 554-582.	2.3	73
10	Inhibition of A β Amyloid Growth and Toxicity by Silybins: The Crucial Role of Stereochemistry. <i>ACS Chemical Neuroscience</i> , 2017, 8, 1767-1778.	1.7	72
11	Insulin Has Multiple Anti-amyloidogenic Effects on Human Neuronal Cells. <i>Endocrinology</i> , 2013, 154, 375-387.	1.4	71
12	Determination of the Conformation of the Human VDAC1 N-Terminal Peptide, a Protein Moiety Essential for the Functional Properties of the Pore. <i>ChemBioChem</i> , 2007, 8, 744-756.	1.3	66
13	Phospholipids Critical Micellar Concentrations Trigger Different Mechanisms of Intrinsically Disordered Proteins Interaction with Model Membranes. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 5125-5129.	2.1	66
14	The proteasome as a druggable target with multiple therapeutic potentialities: Cutting and non-cutting edges. , 2020, 213, 107579.		62
15	Cationic Porphyrins Are Reversible Proteasome Inhibitors. <i>Journal of the American Chemical Society</i> , 2012, 134, 10451-10457.	6.6	60
16	Extended theoretical analysis of irreversible protein thermal unfolding. <i>Biophysical Chemistry</i> , 1994, 52, 183-189.	1.5	52
17	The role of copper in the aggregation of human amylin. <i>Metallomics</i> , 2014, 6, 1841-1852.	1.0	51
18	The role of aromatic side-chains in amyloid growth and membrane interaction of the islet amyloid polypeptide fragment LANFLVH. <i>European Biophysics Journal</i> , 2011, 40, 1-12.	1.2	50

#	ARTICLE	IF	CITATIONS
19	Extracellular truncated tau causes early presynaptic dysfunction associated with Alzheimer's disease and other tauopathies. <i>Oncotarget</i> , 2017, 8, 64745-64778.	0.8	49
20	A Spectroscopic and Calorimetric Investigation on the Thermal Stability of the Cys3Ala/Cys26Ala Azurin Mutant. <i>Biophysical Journal</i> , 1999, 77, 1052-1063.	0.2	48
21	Resveratrol interferes with the aggregation of membrane-bound human-IAPP: A molecular dynamics study. <i>European Journal of Medicinal Chemistry</i> , 2015, 92, 876-881.	2.6	47
22	Ubiquitin binds the amyloid β peptide and interferes with its clearance pathways. <i>Chemical Science</i> , 2019, 10, 2732-2742.	3.7	46
23	Analytical model and multiscale simulations of $A\beta$ peptide aggregation in lipid membranes: towards a unifying description of conformational transitions, oligomerization and membrane damage. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 8940.	1.3	45
24	Amino- and chloro-8-hydroxyquinolines and their copper complexes as proteasome inhibitors and antiproliferative agents. <i>Metallomics</i> , 2017, 9, 1439-1446.	1.0	43
25	Structural Zn(II) Implies a Switch from Fully Cooperative to Partly Downhill Folding in Highly Homologous Proteins. <i>Journal of the American Chemical Society</i> , 2013, 135, 5220-5228.	6.6	41
26	Calcium-activated membrane interaction of the islet amyloid polypeptide: Implications in the pathogenesis of type II diabetes mellitus. <i>Archives of Biochemistry and Biophysics</i> , 2008, 477, 291-298.	1.4	40
27	The double faced role of copper in $A\beta$ homeostasis: A survey on the interrelationship between metal dyshomeostasis, UPS functioning and autophagy in neurodegeneration. <i>Coordination Chemistry Reviews</i> , 2017, 347, 1-22.	9.5	39
28	Repurposing of Copper(II)-chelating Drugs for the Treatment of Neurodegenerative Diseases. <i>Current Medicinal Chemistry</i> , 2018, 25, 525-539.	1.2	38
29	Environmental Factors Differently Affect Human and Rat IAPP: Conformational Preferences and Membrane Interactions of IAPP17-29 Peptide Derivatives. <i>Chemistry - A European Journal</i> , 2007, 13, 10204-10215.	1.7	37
30	Membrane Interactions and Conformational Preferences of Human and Avian Prion N-Terminal Tandem Repeats: The Role of Copper(II) Ions, pH, and Membrane Mimicking Environments. <i>Journal of Physical Chemistry B</i> , 2010, 114, 13830-13838.	1.2	37
31	Zinc to cadmium replacement in the prokaryotic zinc-finger domain. <i>Metallomics</i> , 2014, 6, 96-104.	1.0	37
32	Ubiquitin Stability and the Lys63-Linked Polyubiquitination Site Are Compromised on Copper Binding. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 7993-7995.	7.2	36
33	The insulin-degrading enzyme is an allosteric modulator of the 20S proteasome and a potential competitor of the 19S. <i>Cellular and Molecular Life Sciences</i> , 2018, 75, 3441-3456.	2.4	36
34	A blend of two resveratrol derivatives abolishes hIAPP amyloid growth and membrane damage. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2018, 1860, 1793-1802.	1.4	36
35	Environmental Effects on a Prion's Helix II Domain: Copper(II) and Membrane Interactions with PrP180-193 and Its Analogues. <i>Chemistry - A European Journal</i> , 2006, 12, 537-547.	1.7	35
36	Zinc(II) Complexes of Ubiquitin: Speciation, Affinity and Binding Features. <i>Chemistry - A European Journal</i> , 2011, 17, 11596-11603.	1.7	34

#	ARTICLE	IF	CITATIONS
37	Copper(II) ions affect the gating dynamics of the 20S proteasome: a molecular and in cell study. <i>Scientific Reports</i> , 2016, 6, 33444.	1.6	34
38	Thermodynamics and kinetics of the thermal unfolding of plastocyanin. <i>European Biophysics Journal</i> , 1998, 27, 273-282.	1.2	33
39	DSC study of the interaction of the prion peptide PrP106-126 with artificial membranes. <i>New Journal of Chemistry</i> , 2001, 25, 1543-1548.	1.4	31
40	Phase behaviour of polymer-grafted DPPC membranes for drug delivery systems design. <i>Journal of Thermal Analysis and Calorimetry</i> , 2005, 80, 413-418.	2.0	28
41	Symmetry-breaking transitions in the early steps of protein self-assembly. <i>European Biophysics Journal</i> , 2020, 49, 175-191.	1.2	28
42	Experimental model for the thermal denaturation of azurin: a kinetic study. <i>Biophysical Chemistry</i> , 1996, 60, 29-38.	1.5	27
43	Cationic porphyrins are tunable gatekeepers of the 20S proteasome. <i>Chemical Science</i> , 2016, 7, 1286-1297.	3.7	27
44	An alternative approach in the structure-based predictions of the thermodynamics of protein unfolding. <i>Biophysical Chemistry</i> , 1997, 69, 43-51.	1.5	26
45	Solvent Isotope Effects on Azurin Thermal Unfolding. <i>Journal of Physical Chemistry B</i> , 1998, 102, 1021-1028.	1.2	26
46	The insulin degrading enzyme activates ubiquitin and promotes the formation of K48 and K63 diubiquitin. <i>Chemical Communications</i> , 2015, 51, 15724-15727.	2.2	26
47	Deciphering the zinc coordination properties of the prokaryotic zinc finger domain: The solution structure characterization of Ros87 H42A functional mutant. <i>Journal of Inorganic Biochemistry</i> , 2014, 131, 30-36.	1.5	25
48	The active role of Ca ²⁺ ions in A β -mediated membrane damage. <i>Chemical Communications</i> , 2018, 54, 3629-3631.	2.2	25
49	Inorganic Stressors of Ubiquitin. <i>Inorganic Chemistry</i> , 2013, 52, 9567-9573.	1.9	24
50	Molecular and cytotoxic properties of hIAPP17-29 and rIAPP17-29 fragments: A comparative study with the respective full-length parent polypeptides. <i>European Journal of Medicinal Chemistry</i> , 2014, 81, 442-455.	2.6	24
51	The effects of scan rate and protein concentration on DSC thermograms of bovine superoxide dismutase. <i>Thermochimica Acta</i> , 1995, 265, 163-175.	1.2	23
52	Synthesis, biophysical characterization and anti-HIV activity of d(TG3AG) Quadruplexes bearing hydrophobic tails at the 5'-end. <i>Bioorganic and Medicinal Chemistry</i> , 2014, 22, 960-966.	1.4	23
53	A neglected modulator of insulin-degrading enzyme activity and conformation: The pH. <i>Biophysical Chemistry</i> , 2015, 203-204, 33-40.	1.5	22
54	New comprehensive studies of a gold(III) Dithiocarbamate complex with proven anticancer properties: Aqueous dissolution with cyclodextrins, pharmacokinetics and upstream inhibition of the ubiquitin-proteasome pathway. <i>European Journal of Medicinal Chemistry</i> , 2017, 138, 115-127.	2.6	22

#	ARTICLE	IF	CITATIONS
55	The role of the Cys2-Cys7 disulfide bridge in the early steps of Islet amyloid polypeptide aggregation: A molecular dynamics study. <i>Chemical Physics Letters</i> , 2008, 463, 396-399.	1.2	21
56	Evaluation of thermodynamic properties of irreversible protein thermal unfolding measured by DSC. <i>Journal of Thermal Analysis and Calorimetry</i> , 2005, 80, 263-270.	2.0	20
57	Trehalose Conjugates of Silybin as Prodrugs for Targeting Toxic A β Aggregates. <i>ACS Chemical Neuroscience</i> , 2020, 11, 2566-2576.	1.7	20
58	Are fibril growth and membrane damage linked processes? An experimental and computational study of IAPP12 β and IAPP21 β peptides. <i>New Journal of Chemistry</i> , 2010, 34, 200-207.	1.4	19
59	Modulating A β aggregation by tyrosol-based ligands: The crucial role of the catechol moiety. <i>Biophysical Chemistry</i> , 2020, 265, 106434.	1.5	19
60	A model for the thermal unfolding of amicyanin. <i>European Biophysics Journal</i> , 2002, 30, 559-570.	1.2	18
61	Steered molecular dynamics studies reveal different unfolding pathways of prions from mammalian and non-mammalian species. <i>New Journal of Chemistry</i> , 2007, 31, 901.	1.4	18
62	Folding mechanisms steer the amyloid fibril formation propensity of highly homologous proteins. <i>Chemical Science</i> , 2018, 9, 3290-3298.	3.7	18
63	Sequential Application of Ligand and Structure Based Modeling Approaches to Index Chemicals for Their hH4R Antagonism. <i>PLoS ONE</i> , 2014, 9, e109340.	1.1	17
64	The Role of Calcium, Lipid Membranes and Islet Amyloid Polypeptide in the Onset of Type 2 Diabetes: Innocent Bystanders or Partners in a Crime?. <i>Frontiers in Endocrinology</i> , 2014, 5, 216.	1.5	16
65	The interplay between lipid and A β amyloid homeostasis in Alzheimer's Disease: risk factors and therapeutic opportunities. <i>Chemistry and Physics of Lipids</i> , 2021, 236, 105072.	1.5	16
66	Unveiling the unfolding pathway of FALS associated G37R SOD1 mutant: a computational study. <i>Molecular BioSystems</i> , 2010, 6, 1032.	2.9	15
67	Stabilization vs. destabilization of G-quadruplex superstructures: the role of the porphyrin derivative having spermine arms. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 17404-17410.	1.3	15
68	Pyrazolones Activate the Proteasome by Gating Mechanisms and Protect Neuronal Cells from A β Amyloid Toxicity. <i>ChemMedChem</i> , 2020, 15, 302-316.	1.6	15
69	Amyloid-Mediated Mechanisms of Membrane Disruption. <i>Biophysica</i> , 2021, 1, 137-156.	0.6	14
70	Interactions of two O-phosphorylresveratrol derivatives with model membranes. <i>Archives of Biochemistry and Biophysics</i> , 2012, 521, 111-116.	1.4	13
71	Copper(ii) and zinc(ii) dependent effects on A β 42 aggregation: a CD, Th-T and SFM study. <i>New Journal of Chemistry</i> , 2013, 37, 1206.	1.4	13
72	Computational Comparison of Imidazoline Association with the I2 Binding Site in Human Monoamine Oxidases. <i>Journal of Chemical Information and Modeling</i> , 2014, 54, 1200-1207.	2.5	13

#	ARTICLE	IF	CITATIONS
73	Molecular dynamics: New advances in drug discovery. <i>European Journal of Medicinal Chemistry</i> , 2015, 91, 1-3.	2.6	12
74	Copper, differently from zinc, affects the conformation, oligomerization state and activity of bradykinin. <i>Metallomics</i> , 2016, 8, 750-761.	1.0	11
75	Site directed mutagenesis of insulin-degrading enzyme allows singling out the molecular basis of peptidase <i>versus</i> E1-like activity: the role of metal ions. <i>Metallomics</i> , 2019, 11, 278-281.	1.0	11
76	Defective proteasome biogenesis into skin fibroblasts isolated from Rett syndrome subjects with MeCP2 non-sense mutations. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2020, 1866, 165793.	1.8	11
77	Interaction of prion peptide PrP 180-193 with DPPC model membranes: a thermodynamic study. <i>New Journal of Chemistry</i> , 2003, 27, 359-364.	1.4	10
78	A molecular dynamics study on the conformational stability of PrP 180-193 helix II prion fragment. <i>Chemical Physics Letters</i> , 2004, 390, 511-516.	1.2	10
79	Role of electrostatics in the thermal stability of ubiquitin. <i>Journal of Thermal Analysis and Calorimetry</i> , 2006, 86, 311-314.	2.0	10
80	Long range Trp-Trp interaction initiates the folding pathway of a pro-angiogenic β -hairpin peptide. <i>Scientific Reports</i> , 2015, 5, 16651.	1.6	10
81	Electrostatic Map Of Proteasome β -Rings Encodes The Design of Allosteric Porphyrin-Based Inhibitors Able To Affect 20S Conformation By Cooperative Binding. <i>Scientific Reports</i> , 2017, 7, 17098.	1.6	10
82	Silybins inhibit human IAPP amyloid growth and toxicity through stereospecific interactions. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2022, 1870, 140772.	1.1	10
83	Theoretical basis for differential scanning calorimetric analysis of multimeric proteins. <i>Biophysical Chemistry</i> , 1996, 62, 95-108.	1.5	9
84	Thermodynamic analysis of the contributions of the copper ion and the disulfide bridge to azurin stability: synergism among multiple depletions. <i>Archives of Biochemistry and Biophysics</i> , 2003, 414, 121-127.	1.4	9
85	The different role of Cu ⁺⁺ and Zn ⁺⁺ ions in affecting the interaction of prion peptide PrP106-126 with model membranes. <i>Chemical Communications</i> , 2004, , 246.	2.2	9
86	The Role Played by the β -Helix in the Unfolding Pathway and Stability of Azurin: Switching Between Hierarchic and Nonhierarchic Folding. <i>ChemBioChem</i> , 2007, 8, 1941-1949.	1.3	9
87	Thermodynamics of azurin folding. <i>Journal of Thermal Analysis and Calorimetry</i> , 2008, 93, 575-581.	2.0	8
88	Substitution of the Native Zn(II) with Cd(II), Co(II) and Ni(II) Changes the Downhill Unfolding Mechanism of Ros87 to a Completely Different Scenario. <i>International Journal of Molecular Sciences</i> , 2020, 21, 8285.	1.8	8
89	Differential scanning calorimetry of the irreversible denaturation of bovine superoxide dismutase. <i>Thermochimica Acta</i> , 1994, 246, 183-191.	1.2	7
90	Homology-based Modeling of Rhodopsin-like Family Members in the Inactive State: Structural Analysis and Deduction of Tips for Modeling and Optimization. <i>Molecular Informatics</i> , 2017, 36, 1700014.	1.4	7

#	ARTICLE	IF	CITATIONS
91	Cooperative Binding of the Cationic Porphyrin Tris-T4 Enhances Catalytic Activity of 20S Proteasome Unveiling a Complex Distribution of Functional States. <i>International Journal of Molecular Sciences</i> , 2020, 21, 7190.	1.8	7
92	Tau/A β chimera peptides: Evaluating the dual function of metal coordination and membrane interaction in one sequence. <i>Journal of Inorganic Biochemistry</i> , 2020, 205, 110996.	1.5	7
93	Endogenous and artificial miRNAs explore a rich variety of conformations: a potential relationship between secondary structure and biological functionality. <i>Scientific Reports</i> , 2020, 10, 453.	1.6	7
94	Synthesis of New Tyrosol-Based Phosphodiester Derivatives: Effect on Amyloid β Aggregation and Metal Chelation Ability. <i>ChemMedChem</i> , 2021, 16, 1172-1183.	1.6	7
95	A combined scanning dilatometric and differential scanning calorimetric study of the thermal unfolding of bovine serum albumin. <i>Thermochimica Acta</i> , 1994, 235, 231-237.	1.2	6
96	Tau/A β chimera peptides: A Thioflavin-T and MALDI-TOF study of A β amyloidosis in the presence of Cu(II) or Zn(II) ions and total lipid brain extract (TLBE) vesicles. <i>Chemistry and Physics of Lipids</i> , 2021, 237, 105085.	1.5	6
97	Free energy perturbation and molecular dynamics calculations of copper binding to azurin. <i>Journal of Computational Chemistry</i> , 2003, 24, 779-785.	1.5	5
98	The effect of copper/zinc replacement on the folding free energy of wild type and Cys3Ala/Cys26Ala azurin. <i>International Journal of Biological Macromolecules</i> , 2003, 31, 163-170.	3.6	5
99	Ubiquitin Associates with the N-Terminal Domain of Nerve Growth Factor: The Role of Copper(II) Ions. <i>Chemistry - A European Journal</i> , 2016, 22, 17767-17775.	1.7	5
100	The change of conditions does not affect Ros87 downhill folding mechanism. <i>Scientific Reports</i> , 2020, 10, 21067.	1.6	5
101	The Ionophoric Activity of a Pro-Apoptotic VEGF165 Fragment on HUVEC Cells. <i>International Journal of Molecular Sciences</i> , 2020, 21, 2866.	1.8	5
102	The interaction of a peptide with a scrambled hydrophobic/hydrophilic sequence (Pro-Asp-Ala-Asp-Ala-His-Ala-His-Ala-His-Ala-Ala-His-Gly) (PADH) with DPPC model membranes: a DSC study. <i>Thermochimica Acta</i> , 2002, 390, 73-78.	1.2	3
103	Molecular mechanism of the inhibition of cytochrome c aggregation by Phe-Gly. <i>Archives of Biochemistry and Biophysics</i> , 2005, 435, 182-189.	1.4	3
104	Interaction of Human Amylin with Phosphatidylcholine and Phosphatidylserine Membranes. <i>Molecular Crystals and Liquid Crystals</i> , 2009, 500, 73-81.	0.4	3
105	Probing the helical stability in a VEGF-mimetic peptide. <i>Bioorganic Chemistry</i> , 2021, 116, 105379.	2.0	3
106	Insulin-Degrading Enzyme Is a Non Proteasomal Target of Carfilzomib and Affects the 20S Proteasome Inhibition by the Drug. <i>Biomolecules</i> , 2022, 12, 315.	1.8	3
107	Silybins are stereospecific regulators of the 20S Proteasome. <i>Bioorganic and Medicinal Chemistry</i> , 2022, 66, 116813.	1.4	3
108	Dipyridamole for tracking amyloidogenic proteins aggregation and enhancing polyubiquitination. <i>Archives of Biochemistry and Biophysics</i> , 2022, 728, 109354.	1.4	3

#	ARTICLE	IF	CITATIONS
109	Calorimetric evidence for different structural roles of Glu132 and Glu133 residues in human superoxide dismutase. <i>Thermochimica Acta</i> , 1996, 273, 25-30.	1.2	2
110	Calorimetric Evidences for Copper(II)-Regulated Chiral Recognition Between Decanucleotide 5'â€²d(CTGGATCCAG) ₂ and ALA-TRP Dipeptides. <i>Nucleosides & Nucleotides</i> , 1997, 16, 1847-1854.	0.5	2
111	Strategy to discover full-length amyloid-beta peptide ligands using high-efficiency microarray technology. <i>Beilstein Journal of Nanotechnology</i> , 2017, 8, 2446-2453.	1.5	2
112	Contributions of polar and apolar groups to the thermodynamic stability of azurin. <i>Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics</i> , 1996, 18, 1347-1354.	0.4	1
113	Pores Versus Fibrils: Calcium Ions Regulate Different IAPP-Mediated Membrane Damage Mechanisms. <i>Biophysical Journal</i> , 2013, 104, 395a.	0.2	1
114	Metal Binding to Prion Protein. , 2003, , 21-39.		1
115	Investigation on the solid-phase synthesis of silybin prodrugs and their timed-release. <i>Bioorganic and Medicinal Chemistry</i> , 2021, 50, 116478.	1.4	1
116	Conformational Properties and Functional Role of VDAC N-Terminal Peptide. , 2006, , 625-626.		0
117	Structural characterization of the thermal unfolding pathway of human VEGFR1 D2 domain. <i>FEBS Journal</i> , 2022, 289, 1591-1602.	2.2	0
118	Modulation of the 20S Proteasome Activity by Porphyrin Derivatives Is Steered through Their Charge Distribution. <i>Biomolecules</i> , 2022, 12, 741.	1.8	0