

Pompea Del Vecchio

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7066081/publications.pdf>

Version: 2024-02-01

84
papers

1,423
citations

377584

21
h-index

466096

32
g-index

87
all docs

87
docs citations

87
times ranked

1838
citing authors

#	ARTICLE	IF	CITATIONS
1	The C-terminus of the GKY20 antimicrobial peptide, derived from human thrombin, plays a key role in its membrane perturbation capability. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 7994-8002.	1.3	3
2	Binding Properties of RNA Quadruplex of SARS-CoV-2 to Berberine Compared to Telomeric DNA Quadruplex. <i>International Journal of Molecular Sciences</i> , 2022, 23, 5690.	1.8	12
3	Insights into the Action Mechanism of the Antimicrobial Peptide Lasioglossin III. <i>International Journal of Molecular Sciences</i> , 2021, 22, 2857.	1.8	22
4	Toxicity and membrane perturbation properties of the ribotoxin-like protein Ageritin. <i>Journal of Biochemistry</i> , 2021, 170, 473-482.	0.9	10
5	Impact of a Single Point Mutation on the Antimicrobial and Fibrillogenic Properties of Cryptides from Human Apolipoprotein B. <i>Pharmaceutics</i> , 2021, 14, 631.	1.7	11
6	General Counteraction Exerted by Sugars against Denaturants. <i>Life</i> , 2021, 11, 652.	1.1	5
7	Covalently bonded hopanoid-Lipid A from <i>Bradyrhizobium</i> : The role of unusual molecular structure and calcium ions in regulating the lipid bilayers organization. <i>Journal of Colloid and Interface Science</i> , 2021, 594, 891-901.	5.0	6
8	Environment-Sensitive Fluorescent Labelling of Peptides by Luciferin Analogues. <i>International Journal of Molecular Sciences</i> , 2021, 22, 13312.	1.8	1
9	Guanidinium binding to proteins: The intriguing effects on the D1 and D2 domains of <i>Thermotoga maritima</i> Arginine Binding Protein and a comprehensive analysis of the Protein Data Bank. <i>International Journal of Biological Macromolecules</i> , 2020, 163, 375-385.	3.6	6
10	Unveiling Molecular Recognition of Sialoglycans by Human Siglec-10. <i>IScience</i> , 2020, 23, 101231.	1.9	24
11	Similarities and differences for membranotropic action of three unnatural antimicrobial peptides. <i>Journal of Peptide Science</i> , 2020, 26, e3270.	0.8	10
12	Molecular Dissection of dH3w, A Fluorescent Peptidyl Sensor for Zinc and Mercury. <i>Sensors</i> , 2020, 20, 598.	2.1	2
13	Encapsulating properties of sulfobutylether- β -cyclodextrin toward a thrombin-derived antimicrobial peptide. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019, 138, 3249-3256.	2.0	10
14	Solvation properties of raft-like model membranes. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2019, 1861, 183052.	1.4	12
15	Membrane disintegration by the antimicrobial peptide (P)GKY20: lipid segregation and domain formation. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 3989-3998.	1.3	26
16	The characterization of <i>Thermotoga maritima</i> Arginine Binding Protein variants demonstrates that minimal local strains have an important impact on protein stability. <i>Scientific Reports</i> , 2019, 9, 6617.	1.6	9
17	A signalling cascade involving receptor-activated phospholipase A2, glycerophosphoinositol 4-phosphate, Shp1 and Src in the activation of cell motility. <i>Cell Communication and Signaling</i> , 2019, 17, 20.	2.7	9
18	Counteraction ability of TMAO toward different denaturing agents. <i>Biopolymers</i> , 2018, 109, e23104.	1.2	18

#	ARTICLE	IF	CITATIONS
19	Counteraction of denaturant-induced protein unfolding is a general property of stabilizing agents. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 29389-29398.	1.3	22
20	Fluorescent peptide dH3w: A sensor for environmental monitoring of mercury (II). <i>PLoS ONE</i> , 2018, 13, e0204164.	1.1	11
21	Domain communication in <i>Thermotoga maritima</i> Arginine Binding Protein unraveled through protein dissection. <i>International Journal of Biological Macromolecules</i> , 2018, 119, 758-769.	3.6	5
22	Exploring the role of unnatural amino acids in antimicrobial peptides. <i>Scientific Reports</i> , 2018, 8, 8888.	1.6	76
23	Antimicrobial peptides at work: interaction of myxinidin and its mutant WMR with lipid bilayers mimicking the <i>P. aeruginosa</i> and <i>E. coli</i> membranes. <i>Scientific Reports</i> , 2017, 7, 44425.	1.6	43
24	Binding of a type 1 RIP and of its chimeric variant to phospholipid bilayers: evidence for a link between cytotoxicity and protein/membrane interactions. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2017, 1859, 2106-2112.	1.4	12
25	Proline 235 plays a key role in the regulation of the oligomeric states of <i>Thermotoga maritima</i> Arginine Binding Protein. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2016, 1864, 814-824.	1.1	13
26	On the microscopic and mesoscopic perturbations of lipid bilayers upon interaction with the MPER domain of the HIV glycoprotein gp41. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2016, 1858, 1904-1913.	1.4	12
27	A new peptide-based fluorescent probe selective for zinc and copper. <i>Journal of Materials Chemistry B</i> , 2016, 4, 6979-6988.	2.9	33
28	DMSO-induced perturbation of thermotropic properties of cholesterol-containing DPPC liposomes. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2016, 1858, 3024-3031.	1.4	32
29	Differential thermodynamic behaviours of the extra-cellular regions of two Ser/Thr PrkC kinases revealed by calorimetric studies. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2015, 1854, 402-409.	1.1	4
30	A thermodynamic signature of lipid segregation in biomembranes induced by a short peptide derived from glycoprotein gp36 of feline immunodeficiency virus. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2015, 1848, 510-517.	1.4	18
31	Conformational stability and ligand binding properties of BldR, a member of the MarR family, from <i>Sulfolobus solfataricus</i> . <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2014, 1844, 1167-1172.	1.1	11
32	Structural characterization and biological properties of human gastrokine 1. <i>Molecular BioSystems</i> , 2013, 9, 412.	2.9	18
33	Comprehensive analysis of surface charged residues involved in thermal stability in <i>Alicyclobacillus acidocaldarius</i> esterase 2. <i>Protein Engineering, Design and Selection</i> , 2013, 26, 47-58.	1.0	18
34	Thermal Unfolding of Nucleoside Hydrolases from the Hyperthermophilic Archaeon <i>Sulfolobus solfataricus</i> : Role of Disulfide Bonds. <i>Protein and Peptide Letters</i> , 2012, 19, 369-374.	0.4	4
35	Role of disulfide bonds in conformational stability and folding of 5'-deoxy-5'-methylthioadenosine phosphorylase II from the hyperthermophilic archaeon <i>Sulfolobus solfataricus</i> . <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2012, 1824, 1136-1143.	1.1	18
36	Thermal stabilization of psychrophilic enzymes: A case study of the cold-active hormone-sensitive lipase from <i>Psychrobacter</i> sp. TA144. <i>Biotechnology Progress</i> , 2012, 28, 946-952.	1.3	11

#	ARTICLE	IF	CITATIONS
37	Identification and Physicochemical Characterization of BldR2 from <i>Sulfolobus solfataricus</i> , a Novel Archaeal Member of the MarR Transcription Factor Family. <i>Biochemistry</i> , 2011, 50, 6607-6621.	1.2	23
38	Molecular dynamics study of the conformational stability of esterase 2 from <i>Alicyclobacillus acidocaldarius</i> . <i>International Journal of Biological Macromolecules</i> , 2011, 49, 1072-1077.	3.6	5
39	Dimerisation and structural integrity of Heparin Binding Hemagglutinin A from <i>Mycobacterium tuberculosis</i> : Implications for bacterial agglutination. <i>FEBS Letters</i> , 2010, 584, 1091-1096.	1.3	16
40	Inhomogeneities in sodium decylsulfate doped 1,2-dipalmitoylphosphatidylcholine bilayer. <i>Journal of Colloid and Interface Science</i> , 2010, 343, 401-407.	5.0	4
41	The hormone-sensitive lipase from <i>Psychrobacter</i> sp. TA144: New insight in the structural/functional characterization. <i>Biochimie</i> , 2010, 92, 949-957.	1.3	29
42	Structural determinants of the high thermal stability of SsoPox from the hyperthermophilic archaeon <i>Sulfolobus solfataricus</i> . <i>Extremophiles</i> , 2009, 13, 461-470.	0.9	60
43	Conformational Stability of Esterase Enzymes from Different Sources. <i>Protein and Peptide Letters</i> , 2009, 16, 1201-1206.	0.4	1
44	The effect of trimethylamine N-oxide on RNase a stability. <i>Journal of Thermal Analysis and Calorimetry</i> , 2008, 91, 67-72.	2.0	22
45	Conformational stability and DNA binding energetics of the rat thyroid transcription factor 1 homeodomain. <i>Proteins: Structure, Function and Bioinformatics</i> , 2008, 70, 748-760.	1.5	7
46	Thermodynamics of Solvation of Urea and Some Monosubstituted N-Alkylureas in Water at 298.15 K. <i>Journal of Chemical & Engineering Data</i> , 2007, 52, 419-425.	1.0	27
47	Role of the N-terminal region for the conformational stability of esterase 2 from <i>Alicyclobacillus acidocaldarius</i> . <i>Biophysical Chemistry</i> , 2007, 127, 113-122.	1.5	16
48	Temperature-induced denaturation of Aes acetyl-esterase from <i>Escherichia coli</i> . <i>Thermochimica Acta</i> , 2006, 441, 144-149.	1.2	4
49	Probing the Secondary Structure of a Recombinant Neuronal Adaptor Protein and Its Phosphotyrosine Binding Domains. <i>Bioscience, Biotechnology and Biochemistry</i> , 2005, 69, 2395-2400.	0.6	0
50	Denaturant-Induced Unfolding of the Acetyl-Esterase from <i>Escherichia coli</i> . <i>Biochemistry</i> , 2004, 43, 14637-14643.	1.2	9
51	Guanidine-induced unfolding of the Sso7d protein from the hyperthermophilic archaeon <i>Sulfolobus solfataricus</i> . <i>International Journal of Biological Macromolecules</i> , 2004, 34, 195-201.	3.6	10
52	Analysis of Thermal Adaptation in the HSL Enzyme Family. <i>Journal of Molecular Biology</i> , 2004, 335, 357-369.	2.0	41
53	Effect of trifluoroethanol on the conformational stability of a hyperthermophilic esterase: a CD study. <i>Biophysical Chemistry</i> , 2003, 104, 407-415.	1.5	10
54	Role of the hinge peptide and the intersubunit interface in the swapping of N-termini in dimeric bovine seminal RNase. <i>FEBS Journal</i> , 2003, 270, 4729-4735.	0.2	15

#	ARTICLE	IF	CITATIONS
55	Thermal Stability and DNA Binding Activity of a Variant Form of the Sso7d Protein from the Archeon <i>Sulfolobus solfataricus</i> Truncated at Leucine 54. <i>Biochemistry</i> , 2003, 42, 8362-8368.	1.2	22
56	Denaturing action of urea and guanidine hydrochloride towards two thermophilic esterases. <i>Biochemical Journal</i> , 2002, 367, 857-863.	1.7	61
57	Temperature- and Denaturant-Induced Unfolding of Two Thermophilic Esterases. <i>Biochemistry</i> , 2002, 41, 1364-1371.	1.2	34
58	A ²³ Na NMR study of the effect of d(+) and l(α ⁺) arabinol on NaDNA in aqueous solution. <i>International Journal of Biological Macromolecules</i> , 2001, 29, 237-241.	3.6	1
59	A thermodynamic study of herring protamine-DNA complex by differential scanning calorimetry. <i>Physical Chemistry Chemical Physics</i> , 2001, 3, 5320-5325.	1.3	2
60	Thermodynamic Stability of the Two Isoforms of Bovine Seminal Ribonuclease. <i>Biochemistry</i> , 2000, 39, 7964-7972.	1.2	11
61	The effects of polyols on the thermal stability of calf thymus DNA. <i>International Journal of Biological Macromolecules</i> , 1999, 24, 361-369.	3.6	41
62	Interactions with Natural Polyamines and Thermal Stability of DNA. A DSC Study and a Theoretical Reconsideration. <i>Journal of the American Chemical Society</i> , 1997, 119, 2606-2613.	6.6	45
63	Thermodynamics of protein stability: A family of ribonucleases. <i>Pure and Applied Chemistry</i> , 1997, 69, 2307-2314.	0.9	13
64	Effect of osmoregulatory solutes on the thermal stability of calf-thymus DNA. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1996, 92, 1361.	1.7	13
65	Temperature-Induced Denaturation of α-Glycosidase from the Archaeon <i>Sulfolobus solfataricus</i> . <i>Journal of Biochemistry</i> , 1996, 120, 292-300.	0.9	21
66	Differential scanning calorimetry as a tool to study protein-ligand interactions. <i>Pure and Applied Chemistry</i> , 1995, 67, 1867-1872.	0.9	14
67	The liquid amide transfer model and the unfolding thermodynamics of small globular proteins. <i>International Journal of Biological Macromolecules</i> , 1995, 17, 251-257.	3.6	15
68	Hydration enthalpy of model peptides: N-acetyl amino acid amides. <i>Biophysical Chemistry</i> , 1994, 51, 193-202.	1.5	15
69	Excess enthalpies of N-acetylglycineamide and N-acetyl-l-leucineamide in concentrated aqueous solutions of tetramethylurea. <i>Thermochimica Acta</i> , 1993, 227, 67-73.	1.2	3
70	The deconvolution of multi-state transition DSC curves of biological macromolecules: bovine serum albumin and bovine seminal ribonuclease. <i>Thermochimica Acta</i> , 1993, 227, 185-195.	1.2	15
71	Protein Stability in Non-Aqueous Media: A DSC Study. <i>Studies in Organic Chemistry</i> , 1993, 47, 37-44.	0.2	0
72	Excess enthalpies of dilute aqueous solutions of model peptides and urea at 25°C. <i>Journal of Solution Chemistry</i> , 1992, 21, 1093-1106.	0.6	6

#	ARTICLE	IF	CITATIONS
73	Conformational stability of proteins and peptide-peptide interactions in the presence of carbohydrates. <i>Thermochimica Acta</i> , 1992, 199, 189-196.	1.2	8
74	Interactions between small molecules of biological interest. Excess enthalpies of ternary solutions of oligomers of glycine and isomeric pentoses in water at 25°C. <i>Journal of Solution Chemistry</i> , 1990, 19, 41-50.	0.6	8
75	Thermal stability of herring DNA in the presence of clupeine fractions. <i>Thermochimica Acta</i> , 1990, 162, 133-139.	1.2	1
76	Binding of lanthanum and gadolinium ions to Concanavalin A studied calorimetrically at 25°C. <i>Journal of Molecular Recognition</i> , 1989, 2, 147-151.	1.1	4
77	Chiral recognition between enantiomeric $\hat{\pm}$ -aminoacids. A calorimetric study at 25°C. <i>Journal of Solution Chemistry</i> , 1989, 18, 1105-1116.	0.6	48
78	Influence of charged groups on the conformational stability of succinoglycan in dilute aqueous solution. <i>International Journal of Biological Macromolecules</i> , 1989, 11, 372-376.	3.6	26
79	The peptide-urea interaction. Excess enthalpies of aqueous solutions of N-acetylamides of amino acids and urea at 298.15 K. <i>Journal of the Chemical Society Faraday Transactions I</i> , 1989, 85, 2087.	1.0	27
80	Thermodynamics of alcohols and monosaccharides in aqueous solutions of biuret at 25°C. <i>Journal of Solution Chemistry</i> , 1988, 17, 925-936.	0.6	12
81	Excess enthalpies of ternary aqueous solutions of amides and ureas at 298.15 K. <i>Journal of the Chemical Society Faraday Transactions I</i> , 1988, 84, 1919.	1.0	21
82	Calorimetric determination of chiral interactions in aqueous solutions. <i>Thermochimica Acta</i> , 1987, 122, 105-115.	1.2	20
83	Thermodynamics of formation of inclusion compounds in water. $\hat{\pm}$ -Cyclodextrin-alcohol adducts at 298.15 K. <i>Journal of the Chemical Society Faraday Transactions I</i> , 1986, 82, 2089.	1.0	55
84	Unveiling Molecular Recognition of Sialoglycans by Human Siglec-10. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0