Adrian Velazquez-Campoy

List of Publications by Year
in descending order

224 papers	6,902 citations	66234 42 h-index	95083 68 g-index
235 all docs	235 docs citations	235 times ranked	8660 citing authors

#	Article	IF	Citations
1	Isothermal titration calorimetry to determine association constants for high-affinity ligands. Nature Protocols, 2006, 1, 186-191.	5.5	267
2	Identification of Novel Inhibitors of the SARS Coronavirus Main Protease 3CLpro. Biochemistry, 2004, 43, 4906-4912.	1.2	211
3	ITC in the post-genomic eraâ€¦? Priceless. Biophysical Chemistry, 2005, 115, 115-124.	1.5	192
4	Structural stability of SARS-CoV-2 3CLpro and identification of quercetin as an inhibitor by experimental screening. International Journal of Biological Macromolecules, 2020, 164, 1693-1703.	3.6	184
5	Characterization of Proteinâ€“Protein Interactions by Isothermal Titration Calorimetry. , 2004, 261, 035-054.		183
6	The Binding Energetics of First- and Second-Generation HIV-1 Protease Inhibitors: Implications for Drug Design. Archives of Biochemistry and Biophysics, 2001, 390, 169-175.	1.4	151
7	Identification of pharmacological chaperones as potential therapeutic agents to treat phenylketonuria. Journal of Clinical Investigation, 2008, 118, 2858-2867.	3.9	145
8	HIV-1 Protease Inhibitors:Â Enthalpic versus Entropic Optimization of the Binding Affinityâ€. Biochemistry, 2000, 39, 2201-2207.	1.2	144
9	Catalytic efficiency and vitality of HIV-1 proteases from African viral subtypes. Proceedings of the National Academy of Sciences of the United States of America, 2001, 98, 6062-6067.	3.3	144
10	Chapter 5 Isothermal Titration Calorimetry. Methods in Enzymology, 2009, 455, 127-155.	0.4	142
11	Repositioning tolcapone as a potent inhibitor of transthyretin amyloidogenesis and associated cellular toxicity. Nature Communications, 2016, 7, 10787.	5.8	139
12	Isothermal Titration Calorimetry. Current Protocols in Cell Biology, 2004, 23, Unit 17.8.	2.3	123
13	Thermodynamic Basis of Resistance to HIV-1 Protease Inhibition:Â Calorimetric Analysis of the V82F/I84V Active Site Resistant Mutantâ€. Biochemistry, 2000, 39, 11876-11883.	1.2	118
14	Identification of a Drug Targeting an Intrinsically Disordered Protein Involved in Pancreatic Adenocarcinoma. Scientific Reports, 2017, 7, 39732.	1.6	101
15	Overcoming drug resistance in HIV-1 chemotherapy: The binding thermodynamics of Amprenavir and TMC-126 to wild-type and drug-resistant mutants of the HIV-1 protease. Protein Science, 2002, 11, 1908-1916.	3.1	98
16	Evolutionarily conserved proteins MnmE and GidA catalyze the formation of two methyluridine derivatives at tRNA wobble positions. Nucleic Acids Research, 2009, 37, 7177-7193.	6.5	95
17	Thermodynamic dissection of the binding energetics of KNIâ€272, a potent HIVâ€1 protease inhibitor. Protein Science, 2000, 9, 1801-1809.	3.1	90
18	Cytochrome c speeds up caspase cascade activation by blocking 14-3-3Îµ-dependent Apaf-1 inhibition. Cell Death and Disease, 2018, 9, 365.	2.7	88

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19	Amplification of the Effects of Drug Resistance Mutations by Background Polymorphisms in HIV-1 Protease from African Subtypes. Biochemistry, 2002, 41, 8613-8619.	1.2	87
20	Exact Analysis of Heterotropic Interactions in Proteins: Characterization of Cooperative Ligand Binding by Isothermal Titration Calorimetry. Biophysical Journal, 2006, 91, 1887-1904.	0.2	80
21	Structural and Functional Analysis of Novel Human Cytochrome c Targets in Apoptosis. Molecular and Cellular Proteomics, 2014, 13, 1439-1456.	2.5	74
22	Targeting intrinsically disordered proteins involved in cancer. Cellular and Molecular Life Sciences, 2020, 77, 1695-1707.	2.4	74
23	AFFINImeter: A software to analyze molecular recognition processes from experimental data. Analytical Biochemistry, 2019, 577, 117-134.	1.1	71
24	Thermodynamic rules for the design of high affinity HIV-1 protease inhibitors with adaptability to mutations and high selectivity towards unwanted targets. International Journal of Biochemistry and Cell Biology, 2004, 36, 1787-1799.	1.2	70
25	A unified framework based on the binding polynomial for characterizing biological systems by isothermal titration calorimetry. Methods, 2015, 76, 99-115.	1.9	70
26	Ligand-based design identifies a potent NUPR1 inhibitor exerting anticancer activity via necroptosis. Journal of Clinical Investigation, 2019, 129, 2500-2513.	3.9	68
27	Complex coacervates of hyaluronic acid and lysozyme: Effect on protein structure and physical stability. European Journal of Pharmaceutics and Biopharmaceutics, 2014, 88, 325-331.	2.0	63
28	Guanine nucleotide binding to the Bateman domain mediates the allosteric inhibition of eukaryotic IMP dehydrogenases. Nature Communications, 2015, 6, 8923.	5.8	63
29	A look at ligand binding thermodynamics in drug discovery. Expert Opinion on Drug Discovery, 2017, 12, 363-377.	2.5	61
30	On the link between conformational changes, ligand binding and heat capacity. Biochimica Et Biophysica Acta - General Subjects, 2016, 1860, 868-878.	1.1	60
31	Structural Basis for the Interaction of Unstructured Neuron Specific Substrates Neuromodulin and Neurogranin with Calmodulin. Scientific Reports, 2013, 3, 1392.	1.6	57
32	Rutin Is a Low Micromolar Inhibitor of SARS-CoV-2 Main Protease 3CLpro: Implications for Drug Design of Quercetin Analogs. Biomedicines, 2021, 9, 375.	1.4	57
33	Structural and Thermodynamic Basis of Resistance to HIV-1 Protease Inhibition: Implications for Inhibitor Design. Current Drug Targets Infectious Disorders, 2003, 3, 311-328.	2.1	57
34	A structural and thermodynamic escape mechanism from a drug resistant mutation of the HIV-1 protease. Proteins: Structure, Function and Bioinformatics, 2004, 55, 594-602.	1.5	56
35	Structural basis of mitochondrial dysfunction in response to cytochrome c phosphorylation at tyrosine 48. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E3041-E3050.	3.3	53
36	Characterization of Protein-Protein Interactions by Isothermal Titration Calorimetry. Methods in Molecular Biology, 2015, 1278, 183-204.	0.4	53

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37	Structural basis for inhibition of the histone chaperone activity of SET/TAF-Iî² by cytochrome c. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 9908-9913.	3.3	52
38	Histone chaperone activity of Arabidopsis thaliana NRP1 is blocked by cytochrome c. Nucleic Acids Research, 2017, 45, 2150-2165.	6.5	50
39	MeCP2-E1 isoform is a dynamically expressed, weakly DNA-bound protein with different protein and DNA interactions compared to MeCP2-E2. Epigenetics and Chromatin, 2019, 12, 63.	1.8	50
40	Discovery of Specific Flavodoxin Inhibitors as Potential Therapeutic Agents against Helicobacter pylori Infection. ACS Chemical Biology, 2009, 4, 928-938.	1.6	48
41	The application of thermodynamic methods in drug design. Thermochimica Acta, 2001, 380, 217-227.	1.2	46
42	Structural Characterization of Myotoxic Ecarpholin S From Echis carinatus Venom. Biophysical Journal, 2008, 95, 3366-3380.	0.2	45
43	Structure-Function Analysis of Escherichia coli MnmG (GidA), a Highly Conserved tRNA-Modifying Enzyme. Journal of Bacteriology, 2009, 191, 7614-7619.	1.0	45
44	Therapeutic Strategies for Gaucher Disease: Miglustat (NB-DNJ) as a Pharmacological Chaperone for Glucocerebrosidase and the Different Thermostability of Velaglucerase Alfa and Imiglucerase. Molecular Pharmaceutics, 2011, 8, 2390-2397.	2.3	45
45	A Mechanism for Histone Chaperoning Activity of Nucleoplasmin: Thermodynamic and Structural Models. Journal of Molecular Biology, 2009, 393, 448-463.	2.0	44
46	Seleno-Functionalization of Quercetin Improves the Non-Covalent Inhibition of Mpro and Its Antiviral Activity in Cells against SARS-CoV-2. International Journal of Molecular Sciences, 2021, 22, 7048.	1.8	44
47	Mechanism of Low Density Lipoprotein (LDL) Release in the Endosome. Journal of Biological Chemistry, 2008, 283, 22670-22679.	1.6	43
48	Structural and functional characterization of phosphomimetic mutants of cytochrome c at threonine 28 and serine 47. Biochimica Et Biophysica Acta - Bioenergetics, 2016, 1857, 387-395.	0.5	42
49	Binding Thermodynamics of Ferredoxin:NADP+ Reductase: Two Different Protein Substrates and One Energetics. Biophysical Journal, 2009, 96, 4966-4975.	0.2	41
50	Dendrimers as Potential Inhibitors of the Dimerization of the Capsid Protein of HIV-1. Biomacromolecules, 2010, 11, 2069-2078.	2.6	41
51	Kinetics and Thermodynamics of Chlorpromazine Interaction with Lipid Bilayers: Effect of Charge and Cholesterol. Journal of the American Chemical Society, 2012, 134, 4184-4195.	6.6	41
52	Mechanism of the allosteric activation of the ClpP protease machinery by substrates and active-site inhibitors. Science Advances, 2019, 5, eaaw3818.	4.7	41
53	Structure of GrlRâ€“GrlA complex that prevents GrlA activation of virulence genes. Nature Communications, 2013, 4, 2546.	5.8	38
54	Plant tumour biocontrol agent employs a tRNA-dependent mechanism to inhibit leucyl-tRNA synthetase. Nature Communications, 2013, 4, 1417.	5.8	37

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55	Tolcapone, a potent aggregation inhibitor for the treatment of familial leptomeningeal amyloidosis. FEBS Journal, 2021, 288, 310-324.	2.2	37
56	The Mechanism of Allosteric Coupling in Choline Kinaseâ€…Î±1 Revealed by the Action of a Rationally Designed Inhibitor. Angewandte Chemie - International Edition, 2013, 52, 4582-4586.	7.2	36
57	Identifying potential novel drugs against Helicobacter pylori by targeting the essential response regulator HsrA. Scientific Reports, 2019, 9, 11294.	1.6	35
58	Incorporating target heterogeneity in drug design. Journal of Cellular Biochemistry, 2001, 84, 82-88.	1.2	34
59	Protease inhibition in African subtypes of HIV-1. AIDS Reviews, 2003, 5, 165-71.	0.5	34
60	Deciphering the Binding between Nupr1 and MSL1 and Their DNA-Repairing Activity. PLoS ONE, 2013, 8, e78101.	1.1	33
61	The Flavodoxin from Helicobacter pylori:â€‰ Structural Determinants of Thermostability and FMN Cofactor Binding. Biochemistry, 2008, 47, 627-639.	1.2	32
62	On the Temperature Dependence of Complex Formation between Chitosan and Proteins. Biomacromolecules, 2011, 12, 2534-2543.	2.6	32
63	Contribution of Disulfide Bonds to Stability, Folding, and Amyloid Fibril Formation: The PI3-SH3 Domain Case. Antioxidants and Redox Signaling, 2012, 16, 1-15.	2.5	32
64	Partition of amphiphilic molecules to lipid bilayers by isothermal titration calorimetry. Analytical Biochemistry, 2010, 399, 44-47.	1.1	30
65	<scp>LDL</scp> receptor/lipoprotein recognition: endosomal weakening of ApoB and ApoE binding to the convex face of the <scp>LR</scp>5 repeat. FEBS Journal, 2014, 281, 1534-1546.	2.2	30
66	Deconvolution Analysis for Classifying Gastric Adenocarcinoma Patients Based on Differential Scanning Calorimetry Serum Thermograms. Scientific Reports, 2015, 5, 7988.	1.6	30
67	Interaction of Bile Salts with Model Membranes Mimicking the Gastrointestinal Epithelium: A Study by Isothermal Titration Calorimetry. Langmuir, 2015, 31, 9097-9104.	1.6	30
68	Role of Key Residues at the Flavin Mononucleotide (FMN):Adenylyltransferase Catalytic Site of the Bifunctional Riboflavin Kinase/Flavin Adenine Dinucleotide (FAD) Synthetase from Corynebacterium ammoniagenes. International Journal of Molecular Sciences, 2012, 13, 14492-14517.	1.8	29
69	Ligand binding to one-dimensional lattice-like macromolecules: Analysis of the McGheeâ€“von Hippel theory implemented in isothermal titration calorimetry. Analytical Biochemistry, 2006, 348, 94-104.	1.1	28
70	Structure and Functional Characterization of Human Aspartate Transcarbamoylase, the Target of the Anti-tumoral Drug PALA. Structure, 2016, 24, 1081-1094.	1.6	28
71	Differential NtcA Responsiveness to 2-Oxoglutarate Underlies the Diversity of C/N Balance Regulation in Prochlorococcus. Frontiers in Microbiology, 2017, 8, 2641.	1.5	28
72	Targeting the Stress-Induced Protein NUPR1 to Treat Pancreatic Adenocarcinoma. Cells, 2019, 8, 1453.	1.8	28

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73	Allosteric Inhibitors of the NS3 Protease from the Hepatitis C Virus. PLoS ONE, 2013, 8, e69773.	1.1	28
74	Respiratory complexes III and IV can each bind two molecules of cytochrome c at low ionic strength. FEBS Letters, 2015, 589, 476-483.	1.3	27
75	Thermodynamic Analysis of Ferrous Ion Binding toEscherichia coliFerritin EcFtnAâ€. Biochemistry, 2005, 44, 13837-13846.	1.2	26
76	The Puzzle of Ligand Binding to Corynebacterium ammoniagenes FAD Synthetase. Journal of Biological Chemistry, 2009, 284, 6610-6619.	1.6	26
77	Conformational Stability of Hepatitis C Virus NS3 Protease. Biophysical Journal, 2010, 99, 3811-3820.	0.2	26
78	Improved Flavodoxin Inhibitors with Potential Therapeutic Effects against Helicobacter pylori Infection. Journal of Medicinal Chemistry, 2013, 56, 6248-6258.	2.9	26
79	Cytochrome c1 exhibits two binding sites for cytochrome c in plants. Biochimica Et Biophysica Acta - Bioenergetics, 2014, 1837, 1717-1729.	0.5	26
80	Nanostructures based on ammonium-terminated amphiphilic Janus dendrimers as camptothecin carriers with antiviral activity. European Polymer Journal, 2017, 90, 136-149.	2.6	26
81	Thermodynamics of cooperative binding of FAD to human NQO1: Implications to understanding cofactor-dependent function and stability of the flavoproteome. Archives of Biochemistry and Biophysics, 2017, 636, 17-27.	1.4	26
82	Molecular recognition in the interaction of chloroplast 2â€Cys peroxiredoxin with NADPHâ€thioredoxin reductase C (NTRC) and thioredoxin x. FEBS Letters, 2014, 588, 4342-4347.	1.3	25
83	Structural and functional evidence for membrane docking and disruption sites on phospholipase A₂-like proteins revealed by complexation with the inhibitor suramin. Acta Crystallographica Section D: Biological Crystallography, 2015, 71, 2066-2078.	2.5	25
84	Structural Analysis of the Regulation of the DYNLL/LC8 Binding to Nek9 by Phosphorylation. Journal of Biological Chemistry, 2013, 288, 12283-12294.	1.6	24
85	Microcystin-LR Binds Iron, and Iron Promotes Self-Assembly. Environmental Science & Technology, 2017, 51, 4841-4850.	4.6	24
86	ZZW-115â€“dependent inhibition of NUPR1 nuclear translocation sensitizes cancer cells to genotoxic agents. JCI Insight, 2020, 5, .	2.3	24
87	Rationally Designed Interfacial Peptides Are Efficient In Vitro Inhibitors of HIV-1 Capsid Assembly with Antiviral Activity. PLoS ONE, 2011, 6, e23877.	1.1	24
88	Energetics of Nucleotide-Induced DnaK Conformational States. Biochemistry, 2010, 49, 1338-1345.	1.2	23
89	Shell Crossâ€Linked Polymeric Micelles as Camptothecin Nanocarriers for Antiâ€HCV Therapy. Macromolecular Bioscience, 2015, 15, 1381-1391.	2.1	23
90	Design, Synthesis, and Efficacy Testing of Nitroethylene- and 7-Nitrobenzoxadiazol-Based Flavodoxin Inhibitors against Helicobacter pylori Drug-Resistant Clinical Strains and in Helicobacter pylori-Infected Mice. Journal of Medicinal Chemistry, 2019, 62, 6102-6115.	2.9	23

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91	Uncertainty in proteinâ€“ligand binding constants: asymmetric confidence intervals versus standard errors. European Biophysics Journal, 2021, 50, 661-670.	1.2	23
92	Energetic Effects of Magnesium in the Recognition of Adenosine Nucleotides by the F₁-ATPase Î² Subunit. Biochemistry, 2010, 49, 5258-5268.	1.2	22
93	Amphipathic helical peptides hamper protein-protein interactions of the intrinsically disordered chromatin nuclear protein 1 (NUPR1). Biochimica Et Biophysica Acta - General Subjects, 2018, 1862, 1283-1295.	1.1	22
94	Enzyme/Nanocopper Hybrid Nanozymes: Modulating Enzyme-like Activity by the Protein Structure for Biosensing and Tumor Catalytic Therapy. ACS Applied Materials & Interfaces, 2021, 13, 5111-5124.	4.0	22
95	Thermodynamics of zinc binding to hepatitis C virus NS3 protease: A folding by binding event. Proteins: Structure, Function and Bioinformatics, 2009, 77, 624-636.	1.5	21
96	Cyanobacterial electron carrier proteins as electron donors to CYP106A2 from Bacillus megaterium ATCC 13368. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2009, 1794, 1635-1642.	1.1	20
97	Key Residues at the Riboflavin Kinase Catalytic Site of the Bifunctional Riboflavin Kinase/FMN Adenylyltransferase From Corynebacterium ammoniagenes. Cell Biochemistry and Biophysics, 2013, 65, 57-68.	0.9	20
98	Rational stabilization of complex proteins: a divide and combine approach. Scientific Reports, 2015, 5, 9129.	1.6	20
99	Geometric features of the Wiseman isotherm in isothermal titration calorimetry. Journal of Thermal Analysis and Calorimetry, 2015, 122, 1477-1483.	2.0	20
100	GrpE N-terminal Domain Contributes to the Interaction with DnaK and Modulates the Dynamics of the Chaperone Substrate Binding Domain. Journal of Molecular Biology, 2007, 374, 1054-1064.	2.0	19
101	Identification and characterization of the lipid-binding property of GrlR, a locus of enterocyte effacement regulator. Biochemical Journal, 2009, 420, 191-201.	1.7	19
102	Extending in silico mechanism-of-action analysis by annotating targets with pathways: application to cellular cytotoxicity readouts. Future Medicinal Chemistry, 2014, 6, 2029-2056.	1.1	19
103	The intervening domain from MeCP2 enhances the DNA affinity of the methyl binding domain and provides an independent DNA interaction site. Scientific Reports, 2017, 7, 41635.	1.6	19
104	The FAD synthetase from the human pathogen Streptococcus pneumoniae: a bifunctional enzyme exhibiting activity-dependent redox requirements. Scientific Reports, 2017, 7, 7609.	1.6	19
105	Thermal liquid biopsy for monitoring melanoma patients under surveillance during treatment: A pilot study. Biochimica Et Biophysica Acta - General Subjects, 2018, 1862, 1701-1710.	1.1	19
106	Proposed mechanism for regulation of H₂O₂â€induced programmed cell death in plants by binding of cytochrome c to 14â€3â€3 proteins. Plant Journal, 2021, 106, 74-85.	2.8	19
107	Thermodynamics of proteinâ€cation interaction: Ca⁺² and Mg⁺² binding to the fifth binding module of the LDL receptor. Proteins: Structure, Function and Bioinformatics, 2010, 78, 950-961.	1.5	18
108	Quaternary organization in a bifunctional prokaryotic FAD synthetase: Involvement of an arginine at its adenylyltransferase module on the riboflavin kinase activity. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2015, 1854, 897-906.	1.1	18

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109	DNA mismatch repair proteins MLH1 and PMS2 can be imported to the nucleus by a classical nuclear import pathway. Biochimie, 2018, 146, 87-96.	1.3	18
110	NADP+ Binding to the Regulatory Subunit of Methionine Adenosyltransferase II Increases Intersubunit Binding Affinity in the Hetero-Trimer. PLoS ONE, 2012, 7, e50329.	1.1	17
111	A Quantitative Characterization of Nucleoplasmin/Histone Complexes Reveals Chaperone Versatility. Scientific Reports, 2016, 6, 32114.	1.6	17
112	Mechanisms of feedback inhibition and sequential firing of active sites in plant aspartate transcarbamoylase. Nature Communications, 2021, 12, 947.	5.8	17
113	Inhibition of the PP2A activity by the histone chaperone ANP32B is long-range allosterically regulated by respiratory cytochrome c. Redox Biology, 2021, 43, 101967.	3.9	17
114	NS3 Protease from Hepatitis C Virus: Biophysical Studies on an Intrinsically Disordered Protein Domain. International Journal of Molecular Sciences, 2013, 14, 13282-13306.	1.8	16
115	Polymeric micelles from block copolymers containing 2,6-diacylaminopyridine units for encapsulation of hydrophobic drugs. RSC Advances, 2016, 6, 24066-24075.	1.7	16
116	Cysteine Mutational Studies Provide Insight into a Thiol-Based Redox Switch Mechanism of Metal and DNA Binding in FurA fromAnabaenasp. PCC 7120. Antioxidants and Redox Signaling, 2016, 24, 173-185.	2.5	16
117	The trimer interface in the quaternary structure of the bifunctional prokaryotic FAD synthetase from Corynebacterium ammoniagenes. Scientific Reports, 2017, 7, 404.	1.6	16
118	Repurposing Dihydropyridines for Treatment of Helicobacter pylori Infection. Pharmaceutics, 2019, 11, 681.	2.0	16
119	Sub-Micromolar Inhibition of SARS-CoV-2 3CLpro by Natural Compounds. Pharmaceuticals, 2021, 14, 892.	1.7	16
120	Biophysical Screening for Identifying Pharmacological Chaperones and Inhibitors Against Conformational and Infectious Diseases. Current Drug Targets, 2016, 17, 1492-1505.	1.0	16
121	Determination of Potential Scaffolds for Human Choline Kinase Î±1 by Chemical Deconvolution Studies. ChemBioChem, 2013, 14, 1291-1295.	1.3	15
122	Structural and Calorimetric Studies Demonstrate that Xeroderma Pigmentosum Type G (XPG) Can Be Imported to the Nucleus by a Classical Nuclear Import Pathway via a Monopartite NLS Sequence. Journal of Molecular Biology, 2016, 428, 2120-2131.	2.0	15
123	A New Member of the Thioredoxin Reductase Family from Early Oxygenic Photosynthetic Organisms. Molecular Plant, 2017, 10, 212-215.	3.9	15
124	Design of Inhibitors of the Intrinsically Disordered Protein NUPR1: Balance between Drug Affinity and Target Function. Biomolecules, 2021, 11, 1453.	1.8	15
125	Structural Basis for a Unique ATP Synthase Core Complex from Nanoarcheaum equitans. Journal of Biological Chemistry, 2015, 290, 27280-27296.	1.6	14
126	Kinetics and thermodynamics of the protein-ligand interactions in the riboflavin kinase activity of the FAD synthetase from Corynebacterium ammoniagenes. Scientific Reports, 2017, 7, 7281.	1.6	14

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127	Biophysical studies and NMR structure of YAP2 WW domain - LATS1 PPxY motif complexes reveal the basis of their interaction. Oncotarget, 2018, 9, 8068-8080.	0.8	14
128	Small Molecule Inhibitors of the Response Regulator ArsR Exhibit Bactericidal Activity against Helicobacter pylori. Microorganisms, 2020, 8, 503.	1.6	14
129	Isothermal titration calorimetry (ITC): a standard operating procedure (SOP). European Biophysics Journal, 2021, 50, 363-371.	1.2	14
130	Discovery of Diverse Natural Products as Inhibitors of SARS-CoV-2 M^{pro} Protease through Virtual Screening. Journal of Chemical Information and Modeling, 2021, 61, 6094-6106.	2.5	14
131	Conformational Stability of Helicobacter pylori Flavodoxin. Journal of Biological Chemistry, 2008, 283, 2883-2895.	1.6	13
132	A Phosphorylation-Induced Switch in the Nuclear Localization Sequence of the Intrinsically Disordered NUPR1 Hampers Binding to Importin. Biomolecules, 2020, 10, 1313.	1.8	13
133	Streptococcus pneumoniae TIGR4 Flavodoxin: Structural and Biophysical Characterization of a Novel Drug Target. PLoS ONE, 2016, 11, e0161020.	1.1	13
134	Title is missing!. Magyar AprÃ³vad KÃ¶zlemÃ©nyek, 1999, 57, 343-359.	1.4	12
135	Unprecedented pathway of reducing equivalents in a diflavin-linked disulfide oxidoreductase. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 12725-12730.	3.3	12
136	Arabidopsis FNRL protein is an NADPHâ€dependent chloroplast oxidoreductase resembling bacterial ferredoxinâ€NADP⁺ reductases. Physiologia Plantarum, 2018, 162, 177-190.	2.6	12
137	Thermal Liquid Biopsy (TLB): A Predictive Score Derived from Serum Thermograms as a Clinical Tool for Screening Lung Cancer Patients. Cancers, 2019, 11, 1012.	1.7	12
138	Redox- and Ligand Binding-Dependent Conformational Ensembles in the Human Apoptosis-Inducing Factor Regulate Its Pro-Life and Cell Death Functions. Antioxidants and Redox Signaling, 2019, 30, 2013-2029.	2.5	12
139	A multi-laboratory benchmark study of isothermal titration calorimetry (ITC) using Ca2+ and Mg2+ binding to EDTA. European Biophysics Journal, 2021, 50, 429-451.	1.2	12
140	Biochemical and biophysical characterization of PADI4 supports its involvement in cancer. Archives of Biochemistry and Biophysics, 2022, 717, 109125.	1.4	12
141	Defining the Epitope Region of a Peptide from the Streptomyces coelicolor Phosphoenolpyruvate:Sugar Phosphotransferase System Able to Bind to the Enzyme I. Biophysical Journal, 2008, 95, 1336-1348.	0.2	11
142	Novel Histone H3 Binding Protein ORF158L from the Singapore Grouper Iridovirus. Journal of Virology, 2011, 85, 9159-9166.	1.5	11
143	Zinc induced folding is essential for TIM15 activity as an mtHsp70 chaperone. Biochimica Et Biophysica Acta - General Subjects, 2013, 1830, 2139-2149.	1.1	11
144	Dimerization of VirD2 Binding Protein Is Essential for Agrobacterium Induced Tumor Formation in Plants. PLoS Pathogens, 2014, 10, e1003948.	2.1	11

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145	A Functional Analysis on the Interspecies Interaction between Mouse LFA-1 and Human Intercellular Adhesion Molecule-1 at the Cell Level. Frontiers in Immunology, 2017, 8, 1817.	2.2	11
146	Emissive Enhancement of the Singlet Oxygen Chemiluminescence Probe after Binding to Bovine Serum Albumin. Molecules, 2019, 24, 2422.	1.7	11
147	Dendrimers as Competitors of Proteinâ€"Protein Interactions of the Intrinsically Disordered Nuclear Chromatin Protein NUPR1. Biomacromolecules, 2019, 20, 2567-2576.	2.6	11
148	Inhibition of Pig Phosphoenolpyruvate Carboxykinase Isoenzymes by 3-Mercaptopicolinic Acid and Novel Inhibitors. PLoS ONE, 2016, 11, e0159002.	1.1	11
149	Molecular basis for the integration of environmental signals by FurB from Anabaena sp. PCC 7120. Biochemical Journal, 2018, 475, 151-168.	1.7	10
150	Designing and repurposing drugs to target intrinsically disordered proteins for cancer treatment: using NUPR1 as a paradigm. Molecular and Cellular Oncology, 2019, 6, e1612678.	0.3	10
151	Stereoselective synthesis and biological evaluation as inhibitors of hepatitis C virus RNA polymerase of GSK3082 analogues with structural diversity at the 5-position. European Journal of Medicinal Chemistry, 2019, 171, 401-419.	2.6	10
152	Human riboflavin kinase: Speciesâ€specific traits in the biosynthesis of the FMN cofactor. FASEB Journal, 2020, 34, 10871-10886.	0.2	10
153	Structural Basis for Dual-Inhibition Mechanism of a Non-Classical Kazal-Type Serine Protease Inhibitor from Horseshoe Crab in Complex with Subtilisin. PLoS ONE, 2011, 6, e18838.	1.1	10
154	Isolated noncatalytic and catalytic subunits of F1-ATPase exhibit similar, albeit not identical, energetic strategies for recognizing adenosine nucleotides. Biochimica Et Biophysica Acta - Bioenergetics, 2014, 1837, 44-50.	0.5	9
155	Lowâ€density lipoprotein receptor is a calcium/magnesium sensorÂâ€"Ârole of <scp>LR</scp>4 and <scp>LR</scp>5 ion interaction kinetics in lowâ€density lipoprotein release in the endosome. FEBS Journal, 2014, 281, 2638-2658.	2.2	9
156	Thermal denaturation of Î±-chymotrypsinogen A in presence of polyols at pH 2.0 and pH 3.0. Journal of Thermal Analysis and Calorimetry, 2015, 120, 489-499.	2.0	9
157	Handling complexity in biological interactions. Journal of Thermal Analysis and Calorimetry, 2019, 138, 3229-3248.	2.0	9
158	Stabilization Effect of Intrinsically Disordered Regions on Multidomain Proteins: The Case of the Methyl-CpG Protein 2, MeCP2. Biomolecules, 2021, 11, 1216.	1.8	9
159	Antimalarial Activity of Cupredoxins. Journal of Biological Chemistry, 2013, 288, 20896-20907.	1.6	8
160	The Histidine-Phosphocarrier Protein of the Phosphoenolpyruvate: Sugar Phosphotransferase System of Bacillus sphaericus Self-Associates. PLoS ONE, 2013, 8, e69307.	1.1	8
161	The C-terminal extension of bacterial flavodoxin-reductases: Involvement in the hydride transfer mechanism from the coenzyme. Biochimica Et Biophysica Acta - Bioenergetics, 2014, 1837, 33-43.	0.5	8
162	Structural insights into the ability of nucleoplasmin to assemble and chaperone histone octamers for DNA deposition. Scientific Reports, 2019, 9, 9487.	1.6	8

#	Article	IF	Citations
163	Molecular Context-Dependent Effects Induced by Rett Syndrome-Associated Mutations in MeCP2. Biomolecules, 2020, 10, 1533.	1.8	8
164	Studying the Allosteric Energy Cycle by Isothermal Titration Calorimetry. Methods in Molecular Biology, 2012, 796, 53-70.	0.4	8
165	Peptides as Inhibitors of the First Phosphorylation Step of the Streptomyces coelicolor Phosphoenolpyruvate: Sugar Phosphotransferase System. Biochemistry, 2012, 51, 7393-7402.	1.2	7
166	Experimental validation of in silico target predictions on synergistic protein targets. MedChemComm, 2013, 4, 278-288.	3.5	7
167	Synthesis and Characterization of a Lipidic Alpha Amino Acid: Solubility and Interaction with Serum Albumin and Lipid Bilayers. Journal of Physical Chemistry B, 2013, 117, 3439-3448.	1.2	7
168	A Nonâ€Invasive NMR Method Based on Histidine Imidazoles to Analyze the pHâ€Modulation of Proteinâ€“Nucleic Acid Interfaces. Chemistry - A European Journal, 2015, 21, 7588-7595.	1.7	7
169	The RFK catalytic cycle of the pathogen Streptococcus pneumoniae shows species-specific features in prokaryotic FMN synthesis. Journal of Enzyme Inhibition and Medicinal Chemistry, 2018, 33, 842-849.	2.5	7
170	The histidine phosphocarrier protein, HPr, binds to the highly thermostable regulator of sigma D protein, Rsd, and its isolated helical fragments. Archives of Biochemistry and Biophysics, 2018, 639, 26-37.	1.4	7
171	The Paralogue of the Intrinsically Disordered Nuclear Protein 1 Has a Nuclear Localization Sequence that Binds to Human Importin Î±3. International Journal of Molecular Sciences, 2020, 21, 7428.	1.8	7
172	Influence of the disordered domain structure of MeCP2 on its structural stability and dsDNA interaction. International Journal of Biological Macromolecules, 2021, 175, 58-66.	3.6	7
173	Thermal Liquid Biopsy (TLB) Focused on Benign and Premalignant Pancreatic Cyst Diagnosis. Journal of Personalized Medicine, 2021, 11, 25.	1.1	7
174	Human Enzyme PADI4 Binds to the Nuclear Carrier Importin Î±3. Cells, 2022, 11, 2166.	1.8	7
175	Mechanism of FMN Binding to the Apoflavodoxin from Helicobacter pylori. Biochemistry, 2011, 50, 8703-8711.	1.2	6
176	Stability and binding of the phosphorylated species of the N-terminal domain of enzyme I and the histidine phosphocarrier protein from the Streptomyces coelicolor phosphoenolpyruvate:sugar phosphotransferase system. Archives of Biochemistry and Biophysics, 2012, 526, 44-53.	1.4	6
177	Recombinant production of human ICAM-1 chimeras by single step on column refolding and purification. Process Biochemistry, 2013, 48, 708-715.	1.8	6
178	Molecular crowding effects on the distribution of amphiphiles in biological media. Colloids and Surfaces B: Biointerfaces, 2019, 180, 319-325.	2.5	6
179	2â€oxoglutarate modulates the affinity of FurA for the ntcA promoter in Anabaena sp. PCC 7120. FEBS Letters, 2020, 594, 278-289.	1.3	6
180	Thermal Liquid Biopsy (TLB) of Blood Plasma as a Potential Tool to Help in the Early Diagnosis of Multiple Sclerosis. Journal of Personalized Medicine, 2021, 11, 295.	1.1	6

#	Article	IF	Citations
181	False-positive fecal immunochemical test results in colorectal cancer screening and gastrointestinal drug use. International Journal of Colorectal Disease, 2021, 36, 1861-1869.	1.0	6
182	The nuclear localization sequence of the epigenetic factor RYBP binds to human importin Î±3. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2021, 1869, 140670.	1.1	6
183	Insight on molecular pathogenesis and pharmacochaperoning potential in phosphomannomutase 2 deficiency, provided by novel human <scp>phosphomannomutase 2</scp> structures. Journal of Inherited Metabolic Disease, 2022, 45, 318-333.	1.7	6
184	MeCP2â€¦ Natureâ€™s Wonder Protein or Medicineâ€™s Most Feared One?. Current Genetic Medicine Reports, 2016, 4, 180-194.	1.9	5
185	Quantitative analysis of the impact of a human pathogenic mutation on the CCT5 chaperonin subunit using a proxy archaeal ortholog. Biochemistry and Biophysics Reports, 2017, 12, 66-71.	0.7	5
186	An Alternative Homodimerization Interface of MnmG Reveals a Conformational Dynamics that Is Essential for Its tRNA Modification Function. Journal of Molecular Biology, 2018, 430, 2822-2842.	2.0	5
187	Towards the competent conformation for catalysis in the ferredoxin-NADP+ reductase from the Brucella ovis pathogen. Biochimica Et Biophysica Acta - Bioenergetics, 2019, 1860, 148058.	0.5	5
188	Self-acetylation at the active site of phosphoenolpyruvate carboxykinase (PCK1) controls enzyme activity. Journal of Biological Chemistry, 2021, 296, 100205.	1.6	5
189	Unexpected diversity of ferredoxin-dependent thioredoxin reductases in cyanobacteria. Plant Physiology, 2021, 186, 285-296.	2.3	5
190	Macromolecular interactions in vitro, comparing classical and novel approaches. European Biophysics Journal, 2021, 50, 313-330.	1.2	5
191	W196 and the Î²-Hairpin Motif Modulate the Redox Switch of Conformation and the Biomolecular Interaction Network of the Apoptosis-Inducing Factor. Oxidative Medicine and Cellular Longevity, 2021, 2021, 1-19.	1.9	5
192	Title is missing!. Magyar AprÃ³vad KÃ¶zlemÃ©nyek, 1998, 52, 881-894.	1.4	4
193	Rescuing compound bioactivity in a secondary cell-based screening by using γ-cyclodextrin as a molecular carrier. International Journal of Nanomedicine, 2015, 10, 2249.	3.3	4
194	Direct examination of the relevance for folding, binding and electron transfer of a conserved protein folding intermediate. Physical Chemistry Chemical Physics, 2017, 19, 19021-19031.	1.3	4
195	Tinkering with Binding Polynomials in Isothermal Titration Calorimetry. Methods in Molecular Biology, 2019, 1964, 185-213.	0.4	4
196	Spatial arrangement of LD motif-interacting residues on focal adhesion targeting domain of Focal Adhesion Kinase determine domain-motif interaction affinity and specificity. Biochimica Et Biophysica Acta - General Subjects, 2020, 1864, 129450.	1.1	4
197	Fluorescence Liquid Biopsy for Cancer Detection Is Improved by Using Cationic Dendronized Hyperbranched Polymer. International Journal of Molecular Sciences, 2021, 22, 6501.	1.8	4
198	Fluid interface calorimetry. Journal of Colloid and Interface Science, 2021, 596, 119-129.	5.0	4

#	Article	IF	Citations
199	In Vitro Antiviral Activity of Tyrosinase from Mushroom Agaricus bisporus against Hepatitis C Virus. Pharmaceuticals, 2021, 14, 759.	1.7	4
200	Selective Targeting of Human and Animal Pathogens of the Helicobacter Genus by Flavodoxin Inhibitors: Efficacy, Synergy, Resistance and Mechanistic Studies. International Journal of Molecular Sciences, 2021, 22, 10137.	1.8	4
201	l-Arginine Improves Solubility and ANTI SARS-CoV-2 Mpro Activity of Rutin but Not the Antiviral Activity in Cells. Molecules, 2021, 26, 6062.	1.7	4
202	1,4-Dihydropyridine as a Promising Scaffold for Novel Antimicrobials Against Helicobacter pylori. Frontiers in Microbiology, 2022, 13, .	1.5	4
203	The isolated major homology region of the HIV capsid protein is mainly unfolded in solution and binds to the intact protein. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2011, 1814, 1269-1278.	1.1	3
204	Interplay between non-covalent interactions in 1D supramolecular polymers based on 1,4-bis(iodoethynyl)benzene. Physical Chemistry Chemical Physics, 2021, 23, 3531-3542.	1.3	3
205	The armadillo-repeat domain of plakophilin 1 binds the C-terminal sterile alpha motif (SAM) of p73. Biochimica Et Biophysica Acta - General Subjects, 2021, 1865, 129914.	1.1	3
206	Unsupervised bubble calorimetry analysis: Surface tension from isothermal titration calorimetry. Journal of Colloid and Interface Science, 2022, 606, 1823-1832.	5.0	3
207	High-throughput screening for intrinsically disordered proteins by using biophysical methods. , 2020, , 359-387.		2
208	The isolated GTPase-activating-protein-related domain of neurofibromin-1 has a low conformational stability in solution. Archives of Biochemistry and Biophysics, 2021, 700, 108767.	1.4	2
209	DD04107-Derived neuronal exocytosis inhibitor peptides: Evidences for synaptotagmin-1 as a putative target. Bioorganic Chemistry, 2021, 115, 105231.	2.0	2
210	Residual Helicity at the Active Site of the Histidine Phosphocarrier, HPr, Modulates Binding Affinity to Its Natural Partners. International Journal of Molecular Sciences, 2021, 22, 10805.	1.8	2
211	PP2A is activated by cytochrome c upon formation of a diffuse encounter complex with SET/TAF-Iˆ2. Computational and Structural Biotechnology Journal, 2022, 20, 3695-3707.	1.9	2
212	Thermodynamics of Chlorpromazine Association with Lipid Bilayers. Biophysical Journal, 2011, 100, 505a.	0.2	1
213	Applications of Isothermal Titration Calorimetry in the Characterization of the Energetics, and Kinetics, of the Interaction of Amphiphiles with Lipid Bilayers. Biophysical Journal, 2013, 104, 86a.	0.2	1
214	Thermal liquid biopsy as a valuable tool in lung cancer screening programs. Annals of Oncology, 2019, 30, v579-v580.	0.6	1
215	Function of cofactor Akirin2 in the regulation of gene expression in model human Caucasian neutrophil-like HL60 cells. Bioscience Reports, 2021, 41, .	1.1	1
216	Liquid thermal biopsy as a new non-invasive method of diagnosis for lung cancer patients.. Journal of Clinical Oncology, 2018, 36, e21207-e21207.	0.8	1

#	Article	IF	Citations
217	Alchemical Design of Pharmacological Chaperones with Higher Affinity for Phenylalanine Hydroxylase. International Journal of Molecular Sciences, 2022, 23, 4502.	1.8	1
218	Unspecific Cooperative Ligand Binding to One-Dimensional Lattice-like Macromolecules. AIP Conference Proceedings, 2006, , .	0.3	0
219	Partition of Amphiphilic Molecules To Lipid Bilayers By ITC. Biophysical Journal, 2010, 98, 80a.	0.2	0
220	Experimental validation of in silico target predictions on synergistic protein targets. Journal of Cheminformatics, 2013, 5, .	2.8	0
221	Blocking Nupr1 Protein, A Successful Approach for Pancreatic Adenocarcinoma Treatment. Gastroenterology, 2017, 152, S42.	0.6	0
222	Function of cofactor Akirin2 in the regulation of gene expression in model human Caucasian neutrophil-like HL60 cells. Bioscience Reports, 2021, , .	1.1	0
223	Biotechnology in the 21st century: Challenges and opportunities. Anales De La Real Academia Nacional De Medicina, 2018, 135, 169-173.	0.0	0
224	EP996â€…Thermal liquid biopsy (TLB) as a new diagnostic tool for patients with ovarian cancer: a pilot study. , 2019, , .		0