Adrian Velazquez-Campoy

List of Publications by Year in Descending Order

209 papers	5,250 citations	38 h-index	62 g-index
235 ext. papers	6,264 ext. citations	5.5 avg, IF	5.81 L-index

#	Paper	IF	Citations
209	Biochemical and biophysical characterization of PADI4 supports its involvement in cancer.. *Archives of Biochemistry and Biophysics*, **2022**, 717, 109125	4.1	1
208	Unsupervised bubble calorimetry analysis: Surface tension from isothermal titration calorimetry. *Journal of Colloid and Interface Science*, **2022**, 606, 1823-1832	9.3	1
207	Design of Inhibitors of the Intrinsically Disordered Protein NUPR1: Balance between Drug Affinity and Target Function. *Biomolecules*, **2021**, 11,	5.9	5
206	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,	6.3	1
205	Isothermal titration calorimetry (ITC): a standard operating procedure (SOP). *European Biophysics Journal*, **2021**, 50, 363-371	1.9	4
204	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	4.1	1
203	Influence of the disordered domain structure of MeCP2 on its structural stability and dsDNA interaction. *International Journal of Biological Macromolecules*, **2021**, 175, 58-66	7.9	1
202	A multi-laboratory benchmark study of isothermal titration calorimetry (ITC) using Ca and Mg binding to EDTA. *European Biophysics Journal*, **2021**, 50, 429-451	1.9	2
201	Rutin Is a Low Micromolar Inhibitor of SARS-CoV-2 Main Protease 3CLpro: Implications for Drug Design of Quercetin Analogs. *Biomedicines*, **2021**, 9,	4.8	21
200	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,	3.6	3
199	Uncertainty in protein-ligand binding constants: asymmetric confidence intervals versus standard errors. *European Biophysics Journal*, **2021**, 50, 661-670	1.9	5
198	Macromolecular interactions in vitro, comparing classical and novel approaches. *European Biophysics Journal*, **2021**, 50, 313-330	1.9	2
197	False-positive fecal immunochemical test results in colorectal cancer screening and gastrointestinal drug use. *International Journal of Colorectal Disease*, **2021**, 36, 1861-1869	3	3
196	Seleno-Functionalization of Quercetin Improves the Non-Covalent Inhibition of M and Its Antiviral Activity in Cells against SARS-CoV-2. *International Journal of Molecular Sciences*, **2021**, 22,	6.3	9
195	Fluorescence Liquid Biopsy for Cancer Detection Is Improved by Using Cationic Dendronized Hyperbranched Polymer. *International Journal of Molecular Sciences*, **2021**, 22,	6.3	3
194	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	4	1
193	Inhibition of the PP2A activity by the histone chaperone ANP32B is long-range allosterically regulated by respiratory cytochrome c. *Redox Biology*, **2021**, 43, 101967	11.3	7

192	Tolcapone, a potent aggregation inhibitor for the treatment of familial leptomeningeal amyloidosis. *FEBS Journal*, **2021**, 288, 310-324	5.7	20
191	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	9.5	7
190	Proposed mechanism for regulation of H O -induced programmed cell death in plants by binding of cytochrome c to 14-3-3 proteins. *Plant Journal*, **2021**, 106, 74-85	6.9	8
189	Self-acetylation at the active site of phosphoenolpyruvate carboxykinase (PCK1) controls enzyme activity. *Journal of Biological Chemistry*, **2021**, 296, 100205	5.4	1
188	Interplay between non-covalent interactions in 1D supramolecular polymers based on 1,4-bis(iodoethynyl)benzene. *Physical Chemistry Chemical Physics*, **2021**, 23, 3531-3542	3.6	3
187	Mechanisms of feedback inhibition and sequential firing of active sites in plant aspartate transcarbamoylase. *Nature Communications*, **2021**, 12, 947	17.4	5
186	Unexpected diversity of ferredoxin-dependent thioredoxin reductases in cyanobacteria. *Plant Physiology*, **2021**, 186, 285-296	6.6	1
185	Fluid interface calorimetry. *Journal of Colloid and Interface Science*, **2021**, 596, 119-129	9.3	2
184	The nuclear localization sequence of the epigenetic factor RYBP binds to human importin β. *Biochimica Et Biophysica Acta - Proteins and Proteomics*, **2021**, 1869, 140670	4	1
183	Stabilization Effect of Intrinsically Disordered Regions on Multidomain Proteins: The Case of the Methyl-CpG Protein 2, MeCP2. *Biomolecules*, **2021**, 11,	5.9	1
182	Sub-Micromolar Inhibition of SARS-CoV-2 3CLpro by Natural Compounds. *Pharmaceuticals*, **2021**, 14,	5.2	5
181	DD04107-Derived neuronal exocytosis inhibitor peptides: Evidences for synaptotagmin-1 as a putative target. *Bioorganic Chemistry*, **2021**, 115, 105231	5.1	0
180	W196 and the -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, 6673661	6.7	0
179	The Paralogue of the Intrinsically Disordered Nuclear Protein 1 Has a Nuclear Localization Sequence that Binds to Human Importin β. *International Journal of Molecular Sciences*, **2020**, 21,	6.3	4
178	High-throughput screening for intrinsically disordered proteins by using biophysical methods **2020**, 359-387		0
177	Small Molecule Inhibitors of the Response Regulator ArsR Exhibit Bactericidal Activity against. *Microorganisms*, **2020**, 8,	4.9	7
176	ZZW-115-dependent inhibition of NUPR1 nuclear translocation sensitizes cancer cells to genotoxic agents. *JCI Insight*, **2020**, 5,	9.9	9
175	Thermal Liquid Biopsy (TLB) Focused on Benign and Premalignant Pancreatic Cyst Diagnosis. *Journal of Personalized Medicine*, **2020**, 11,	3.6	3

174	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	4	2
173	Targeting intrinsically disordered proteins involved in cancer. *Cellular and Molecular Life Sciences*, **2020**, 77, 1695-1707	10.3	28
172	2-oxoglutarate modulates the affinity of FurA for the ntcA promoter in Anabaena sp. PCC 7120. *FEBS Letters*, **2020**, 594, 278-289	3.8	1
171	Molecular Context-Dependent Effects Induced by Rett Syndrome-Associated Mutations in MeCP2. *Biomolecules*, **2020**, 10,	5.9	3
170	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	7.9	102
169	Human riboflavin kinase: Species-specific traits in the biosynthesis of the FMN cofactor. *FASEB Journal*, **2020**, 34, 10871-10886	0.9	7
168	A Phosphorylation-Induced Switch in the Nuclear Localization Sequence of the Intrinsically Disordered NUPR1 Hampers Binding to Importin. *Biomolecules*, **2020**, 10,	5.9	5
167	Mechanism of the allosteric activation of the ClpP protease machinery by substrates and active-site inhibitors. *Science Advances*, **2019**, 5, eaaw3818	14.3	21
166	Design, Synthesis, and Efficacy Testing of Nitroethylene- and 7-Nitrobenzoxadiazol-Based Flavodoxin Inhibitors against Drug-Resistant Clinical Strains and in -Infected Mice. *Journal of Medicinal Chemistry*, **2019**, 62, 6102-6115	8.3	14
165	Dendrimers as Competitors of Protein-Protein Interactions of the Intrinsically Disordered Nuclear Chromatin Protein NUPR1. *Biomacromolecules*, **2019**, 20, 2567-2576	6.9	8
164	Molecular crowding effects on the distribution of amphiphiles in biological media. *Colloids and Surfaces B: Biointerfaces*, **2019**, 180, 319-325	6	1
163	Designing and repurposing drugs to target intrinsically disordered proteins for cancer treatment: using NUPR1 as a paradigm. *Molecular and Cellular Oncology*, **2019**, 6, e1612678	1.2	6
162	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	6.8	5
161	AFFINImeter: A software to analyze molecular recognition processes from experimental data. *Analytical Biochemistry*, **2019**, 577, 117-134	3.1	44
160	Tinkering with Binding Polynomials in Isothermal Titration Calorimetry. *Methods in Molecular Biology*, **2019**, 1964, 185-213	1.4	3
159	Handling complexity in biological interactions. *Journal of Thermal Analysis and Calorimetry*, **2019**, 138, 3229-3248	4.1	4
158	Towards the competent conformation for catalysis in the ferredoxin-NADP reductase from the Brucella ovis pathogen. *Biochimica Et Biophysica Acta - Bioenergetics*, **2019**, 1860, 148058	4.6	4
157	Identifying potential novel drugs against Helicobacter pylori by targeting the essential response regulator HsrA. *Scientific Reports*, **2019**, 9, 11294	4.9	20

156	Structural insights into the ability of nucleoplasmin to assemble and chaperone histone octamers for DNA deposition. *Scientific Reports*, **2019**, 9, 9487	4.9	5
155	Emissive Enhancement of the Singlet Oxygen Chemiluminescence Probe after Binding to Bovine Serum Albumin. *Molecules*, **2019**, 24,	4.8	7
154	Thermal Liquid Biopsy (TLB): A Predictive Score Derived from Serum Thermograms as a Clinical Tool for Screening Lung Cancer Patients. *Cancers*, **2019**, 11,	6.6	7
153	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	5.8	23
152	Ligand-based design identifies a potent NUPR1 inhibitor exerting anticancer activity via necroptosis. *Journal of Clinical Investigation*, **2019**, 129, 2500-2513	15.9	47
151	Targeting the Stress-Induced Protein NUPR1 to Treat Pancreatic Adenocarcinoma. *Cells*, **2019**, 8,	7.9	17
150	Repurposing Dihydropyridines for Treatment of Infection. *Pharmaceutics*, **2019**, 11,	6.4	8
149	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	8.4	9
148	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	5.6	6
147	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	4.1	6
146	Thermal liquid biopsy for monitoring melanoma patients under surveillance during treatment: A pilot study. *Biochimica Et Biophysica Acta - General Subjects*, **2018**, 1862, 1701-1710	4	12
145	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	4	16
144	Cytochrome c speeds up caspase cascade activation by blocking 14-3-3ε-dependent Apaf-1 inhibition. *Cell Death and Disease*, **2018**, 9, 365	9.8	49
143	Arabidopsis FNRL protein is an NADPH-dependent chloroplast oxidoreductase resembling bacterial ferredoxin-NADP reductases. *Physiologia Plantarum*, **2018**, 162, 177-190	4.6	6
142	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	6.5	3
141	Liquid thermal biopsy as a new non-invasive method of diagnosis for lung cancer patients.. *Journal of Clinical Oncology*, **2018**, 36, e21207-e21207	2.2	1
140	DNA mismatch repair proteins MLH1 and PMS2 can be imported to the nucleus by a classical nuclear import pathway. *Biochimie*, **2018**, 146, 87-96	4.6	9
139	Molecular basis for the integration of environmental signals by FurB from sp. PCC 7120. *Biochemical Journal*, **2018**, 475, 151-168	3.8	4

138	Biophysical studies and NMR structure of YAP2 WW domain - LATS1 PPxY motif complexes reveal the basis of their interaction. *Oncotarget*, **2018**, 9, 8068-8080	3.3	9
137	Identification of a Drug Targeting an Intrinsically Disordered Protein Involved in Pancreatic Adenocarcinoma. *Scientific Reports*, **2017**, 7, 39732	4.9	81
136	A look at ligand binding thermodynamics in drug discovery. *Expert Opinion on Drug Discovery*, **2017**, 12, 363-377	6.2	38
135	Nanostructures based on ammonium-terminated amphiphilic Janus dendrimers as camptothecin carriers with antiviral activity. *European Polymer Journal*, **2017**, 90, 136-149	5.2	23
134	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	4.9	11
133	Structural basis of mitochondrial dysfunction in response to cytochrome phosphorylation at tyrosine 48. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, E3041-E3050	11.5	46
132	Microcystin-LR Binds Iron, and Iron Promotes Self-Assembly. *Environmental Science & Technology*, **2017**, 51, 4841-4850	10.3	13
131	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	2.2	4
130	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	4.9	12
129	Histone chaperone activity of Arabidopsis thaliana NRP1 is blocked by cytochrome c. *Nucleic Acids Research*, **2017**, 45, 2150-2165	20.1	34
128	Differential NtcA Responsiveness to 2-Oxoglutarate Underlies the Diversity of C/N Balance Regulation in. *Frontiers in Microbiology*, **2017**, 8, 2641	5.7	12
127	The FAD synthetase from the human pathogen Streptococcus pneumoniae: a bifunctional enzyme exhibiting activity-dependent redox requirements. *Scientific Reports*, **2017**, 7, 7609	4.9	12
126	The trimer interface in the quaternary structure of the bifunctional prokaryotic FAD synthetase from Corynebacterium ammoniagenes. *Scientific Reports*, **2017**, 7, 404	4.9	15
125	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	11.5	10
124	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	4.1	18
123	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	3.6	1
122	A New Member of the Thioredoxin Reductase Family from Early Oxygenic Photosynthetic Organisms. *Molecular Plant*, **2017**, 10, 212-215	14.4	12
121	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	8.4	5

120	Cysteine Mutational Studies Provide Insight into a Thiol-Based Redox Switch Mechanism of Metal and DNA Binding in FurA from Anabaena sp. PCC 7120. *Antioxidants and Redox Signaling*, **2016**, 24, 173-185	8.4	13
119	A Quantitative Characterization of Nucleoplasmin/Histone Complexes Reveals Chaperone Versatility. *Scientific Reports*, **2016**, 6, 32114	4.9	13
118	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, 2120-31	6.5	13
117	On the link between conformational changes, ligand binding and heat capacity. *Biochimica Et Biophysica Acta - General Subjects*, **2016**, 1860, 868-878	4	44
116	Polymeric micelles from block copolymers containing 2,6-diacylaminopyridine units for encapsulation of hydrophobic drugs. *RSC Advances*, **2016**, 6, 24066-24075	3.7	16
115	Inhibition of Pig Phosphoenolpyruvate Carboxykinase Isoenzymes by 3-Mercaptopicolinic Acid and Novel Inhibitors. *PLoS ONE*, **2016**, 11, e0159002	3.7	7
114	Streptococcus pneumoniae TIGR4 Flavodoxin: Structural and Biophysical Characterization of a Novel Drug Target. *PLoS ONE*, **2016**, 11, e0161020	3.7	9
113	Biophysical Screening for Identifying Pharmacological Chaperones and Inhibitors Against Conformational and Infectious Diseases. *Current Drug Targets*, **2016**, 17, 1492-505	3	10
112	Structure and Functional Characterization of Human Aspartate Transcarbamoylase, the Target of the Anti-tumoral Drug PALA. *Structure*, **2016**, 24, 1081-94	5.2	17
111	Repositioning tolcapone as a potent inhibitor of transthyretin amyloidogenesis and associated cellular toxicity. *Nature Communications*, **2016**, 7, 10787	17.4	102
110	Structural and functional characterization of phosphomimetic mutants of cytochrome c at threonine 28 and serine 47. *Biochimica Et Biophysica Acta - Bioenergetics*, **2016**, 1857, 387-95	4.6	32
109	MeCP2: Nature's Wonder Protein or Medicine's Most Feared One?. *Current Genetic Medicine Reports*, **2016**, 4, 180-194	2.2	2
108	Thermal denaturation of α-chymotrypsinogen A in presence of polyols at pH 2.0 and pH 3.0. *Journal of Thermal Analysis and Calorimetry*, **2015**, 120, 489-499	4.1	8
107	Structural basis for inhibition of the histone chaperone activity of SET/TAF-Iβ by cytochrome c. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, 9908-13	11.5	35
106	Interaction of Bile Salts with Model Membranes Mimicking the Gastrointestinal Epithelium: A Study by Isothermal Titration Calorimetry. *Langmuir*, **2015**, 31, 9097-104	4	18
105	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	4	15
104	A unified framework based on the binding polynomial for characterizing biological systems by isothermal titration calorimetry. *Methods*, **2015**, 76, 99-115	4.6	56
103	Rational stabilization of complex proteins: a divide and combine approach. *Scientific Reports*, **2015**, 5, 9129	4.9	14

102	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, 2066-78		20
101	Geometric features of the Wiseman isotherm in isothermal titration calorimetry. *Journal of Thermal Analysis and Calorimetry*, **2015**, 122, 1477-1483	4.1	15
100	Guanine nucleotide binding to the Bateman domain mediates the allosteric inhibition of eukaryotic IMP dehydrogenases. *Nature Communications*, **2015**, 6, 8923	17.4	42
99	Structural Basis for a Unique ATP Synthase Core Complex from Nanoarcheaum equitans. *Journal of Biological Chemistry*, **2015**, 290, 27280-27296	5.4	12
98	A Non-Invasive NMR Method Based on Histidine Imidazoles to Analyze the pH-Modulation of Protein-Nucleic Acid Interfaces. *Chemistry - A European Journal*, **2015**, 21, 7588-95	4.8	6
97	Shell Cross-Linked Polymeric Micelles as Camptothecin Nanocarriers for Anti-HCV Therapy. *Macromolecular Bioscience*, **2015**, 15, 1381-91	5.5	19
96	Rescuing compound bioactivity in a secondary cell-based screening by using β-cyclodextrin as a molecular carrier. *International Journal of Nanomedicine*, **2015**, 10, 2249-59	7.3	4
95	Deconvolution analysis for classifying gastric adenocarcinoma patients based on differential scanning calorimetry serum thermograms. *Scientific Reports*, **2015**, 5, 7988	4.9	24
94	Respiratory complexes III and IV can each bind two molecules of cytochrome c at low ionic strength. *FEBS Letters*, **2015**, 589, 476-83	3.8	22
93	Characterization of protein-protein interactions by isothermal titration calorimetry. *Methods in Molecular Biology*, **2015**, 1278, 183-204	1.4	41
92	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	4.6	7
91	Molecular recognition in the interaction of chloroplast 2-Cys peroxiredoxin with NADPH-thioredoxin reductase C (NTRC) and thioredoxin x. *FEBS Letters*, **2014**, 588, 4342-7	3.8	24
90	LDL receptor/lipoprotein recognition: endosomal weakening of ApoB and ApoE binding to the convex face of the LR5 repeat. *FEBS Journal*, **2014**, 281, 1534-46	5.7	20
89	Complex coacervates of hyaluronic acid and lysozyme: effect on protein structure and physical stability. *European Journal of Pharmaceutics and Biopharmaceutics*, **2014**, 88, 325-31	5.7	50
88	Cytochrome c1 exhibits two binding sites for cytochrome c in plants. *Biochimica Et Biophysica Acta - Bioenergetics*, **2014**, 1837, 1717-29	4.6	23
87	Structural and functional analysis of novel human cytochrome C targets in apoptosis. *Molecular and Cellular Proteomics*, **2014**, 13, 1439-56	7.6	52
86	Low-density lipoprotein receptor is a calcium/magnesium sensor - role of LR4 and LR5 ion interaction kinetics in low-density lipoprotein release in the endosome. *FEBS Journal*, **2014**, 281, 2638-58	5.7	9
85	Extending in silico mechanism-of-action analysis by annotating targets with pathways: application to cellular cytotoxicity readouts. *Future Medicinal Chemistry*, **2014**, 6, 2029-56	4.1	16

84	Dimerization of VirD2 binding protein is essential for Agrobacterium induced tumor formation in plants. *PLoS Pathogens*, **2014**, 10, e1003948	7.6	9
83	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	4.6	6
82	Experimental validation of in silico target predictions on synergistic protein targets. *Journal of Cheminformatics*, **2013**, 5,	8.6	78
81	Improved flavodoxin inhibitors with potential therapeutic effects against Helicobacter pylori infection. *Journal of Medicinal Chemistry*, **2013**, 56, 6248-58	8.3	20
80	Structure of GrlR-GrlA complex that prevents GrlA activation of virulence genes. *Nature Communications*, **2013**, 4, 2546	17.4	28
79	Experimental validation of in silico target predictions on synergistic protein targets. *MedChemComm*, **2013**, 4, 278-288	5	7
78	Antimalarial activity of cupredoxins: the interaction of Plasmodium merozoite surface protein 119 (MSP119) and rusticyanin. *Journal of Biological Chemistry*, **2013**, 288, 20896-20907	5.4	7
77	Recombinant production of human ICAM-1 chimeras by single step on column refolding and purification. *Process Biochemistry*, **2013**, 48, 708-715	4.8	6
76	Structural basis for the interaction of unstructured neuron specific substrates neuromodulin and neurogranin with Calmodulin. *Scientific Reports*, **2013**, 3, 1392	4.9	44
75	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	3.2	16
74	Plant tumour biocontrol agent employs a tRNA-dependent mechanism to inhibit leucyl-tRNA synthetase. *Nature Communications*, **2013**, 4, 1417	17.4	33
73	The mechanism of allosteric coupling in choline kinase α revealed by the action of a rationally designed inhibitor. *Angewandte Chemie - International Edition*, **2013**, 52, 4582-6	16.4	28
72	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, 3439-48	3.4	5
71	Zinc induced folding is essential for TIM15 activity as an mtHsp70 chaperone. *Biochimica Et Biophysica Acta - General Subjects*, **2013**, 1830, 2139-49	4	10
70	Structural analysis of the regulation of the DYNLL/LC8 binding to Nek9 by phosphorylation. *Journal of Biological Chemistry*, **2013**, 288, 12283-94	5.4	22
69	Determination of potential scaffolds for human choline kinase α by chemical deconvolution studies. *ChemBioChem*, **2013**, 14, 1291-5	3.8	11
68	The Mechanism of Allosteric Coupling in Choline Kinase α Revealed by the Action of a Rationally Designed Inhibitor. *Angewandte Chemie*, **2013**, 125, 4680-4684	3.6	2
67	The histidine-phosphocarrier protein of the phosphoenolpyruvate: sugar phosphotransferase system of Bacillus sphaericus self-associates. *PLoS ONE*, **2013**, 8, e69307	3.7	8

66	Deciphering the binding between Nupr1 and MSL1 and their DNA-repairing activity. *PLoS ONE*, **2013**, 8, e78101	3.7	31
65	NS3 protease from hepatitis C virus: biophysical studies on an intrinsically disordered protein domain. *International Journal of Molecular Sciences*, **2013**, 14, 13282-306	6.3	9
64	Allosteric inhibitors of the NS3 protease from the hepatitis C virus. *PLoS ONE*, **2013**, 8, e69773	3.7	23
63	Peptides as inhibitors of the first phosphorylation step of the Streptomyces coelicolor phosphoenolpyruvate: sugar phosphotransferase system. *Biochemistry*, **2012**, 51, 7393-402	3.2	6
62	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	4.1	4
61	Kinetics and thermodynamics of chlorpromazine interaction with lipid bilayers: effect of charge and cholesterol. *Journal of the American Chemical Society*, **2012**, 134, 4184-95	16.4	32
60	NADP+ binding to the regulatory subunit of methionine adenosyltransferase II increases intersubunit binding affinity in the hetero-trimer. *PLoS ONE*, **2012**, 7, e50329	3.7	14
59	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, 14492-517	6.3	24
58	Contribution of disulfide bonds to stability, folding, and amyloid fibril formation: the PI3-SH3 domain case. *Antioxidants and Redox Signaling*, **2012**, 16, 1-15	8.4	25
57	Studying the allosteric energy cycle by isothermal titration calorimetry. *Methods in Molecular Biology*, **2012**, 796, 53-70	1.4	7
56	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, 2390-7	5.6	39
55	On the temperature dependence of complex formation between chitosan and proteins. *Biomacromolecules*, **2011**, 12, 2534-43	6.9	27
54	Mechanism of FMN Binding to the Apoflavodoxin from Helicobacter pylori. *Biochemistry*, **2011**, 50, 8703-11	3.1	6
53	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, 1269-78	4	3
52	Novel histone H3 binding protein ORF158L from the Singapore grouper iridovirus. *Journal of Virology*, **2011**, 85, 9159-66	6.6	10
51	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	3.7	10
50	Rationally designed interfacial peptides are efficient in vitro inhibitors of HIV-1 capsid assembly with antiviral activity. *PLoS ONE*, **2011**, 6, e23877	3.7	21
49	Conformational stability of hepatitis C virus NS3 protease. *Biophysical Journal*, **2010**, 99, 3811-20	2.9	24

48	Energetic effects of magnesium in the recognition of adenosine nucleotides by the F(1)-ATPase beta subunit. *Biochemistry*, **2010**, 49, 5258-68	3.2	18
47	Energetics of nucleotide-induced DnaK conformational states. *Biochemistry*, **2010**, 49, 1338-45	3.2	22
46	Dendrimers as potential inhibitors of the dimerization of the capsid protein of HIV-1. *Biomacromolecules*, **2010**, 11, 2069-78	6.9	38
45	Partition of amphiphilic molecules to lipid bilayers by isothermal titration calorimetry. *Analytical Biochemistry*, **2010**, 399, 44-7	3.1	22
44	Thermodynamics of protein-cation interaction: Ca(+2) and Mg(+2) binding to the fifth binding module of the LDL receptor. *Proteins: Structure, Function and Bioinformatics*, **2010**, 78, 950-61	4.2	16
43	Evolutionarily conserved proteins MnmE and GidA catalyze the formation of two methyluridine derivatives at tRNA wobble positions. *Nucleic Acids Research*, **2009**, 37, 7177-93	20.1	81
42	The puzzle of ligand binding to Corynebacterium ammoniagenes FAD synthetase. *Journal of Biological Chemistry*, **2009**, 284, 6610-9	5.4	26
41	Structure-function analysis of Escherichia coli MnmG (GidA), a highly conserved tRNA-modifying enzyme. *Journal of Bacteriology*, **2009**, 191, 7614-9	3.5	37
40	Thermodynamics of zinc binding to hepatitis C virus NS3 protease: a folding by binding event. *Proteins: Structure, Function and Bioinformatics*, **2009**, 77, 624-36	4.2	18
39	Cyanobacterial electron carrier proteins as electron donors to CYP106A2 from Bacillus megaterium ATCC 13368. *Biochimica Et Biophysica Acta - Proteins and Proteomics*, **2009**, 1794, 1635-42	4	19
38	Discovery of specific flavodoxin inhibitors as potential therapeutic agents against Helicobacter pylori infection. *ACS Chemical Biology*, **2009**, 4, 928-38	4.9	39
37	A mechanism for histone chaperoning activity of nucleoplasmin: thermodynamic and structural models. *Journal of Molecular Biology*, **2009**, 393, 448-63	6.5	36
36	Binding thermodynamics of ferredoxin:NADP+ reductase: two different protein substrates and one energetics. *Biophysical Journal*, **2009**, 96, 4966-75	2.9	38
35	Isothermal titration calorimetry: general formalism using binding polynomials. *Methods in Enzymology*, **2009**, 455, 127-55	1.7	111
34	Identification and characterization of the lipid-binding property of GrlR, a locus of enterocyte effacement regulator. *Biochemical Journal*, **2009**, 420, 191-9	3.8	18
33	Structural characterization of myotoxic ecarpholin S from Echis carinatus venom. *Biophysical Journal*, **2008**, 95, 3366-80	2.9	36
32	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, 1336-48	2.9	10
31	The flavodoxin from Helicobacter pylori: structural determinants of thermostability and FMN cofactor binding. *Biochemistry*, **2008**, 47, 627-39	3.2	28

30	Conformational stability of Helicobacter pylori flavodoxin: fit to function at pH 5. *Journal of Biological Chemistry*, **2008**, 283, 2883-95	5.4	12
29	Mechanism of low density lipoprotein (LDL) release in the endosome: implications of the stability and Ca2+ affinity of the fifth binding module of the LDL receptor. *Journal of Biological Chemistry*, **2008**, 283, 22670-9	5.4	39
28	Identification of pharmacological chaperones as potential therapeutic agents to treat phenylketonuria. *Journal of Clinical Investigation*, **2008**, 118, 2858-67	15.9	119
27	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, 1054-64	6.5	15
26	Exact analysis of heterotropic interactions in proteins: Characterization of cooperative ligand binding by isothermal titration calorimetry. *Biophysical Journal*, **2006**, 91, 1887-904	2.9	54
25	Isothermal titration calorimetry to determine association constants for high-affinity ligands. *Nature Protocols*, **2006**, 1, 186-91	18.8	223
24	Ligand binding to one-dimensional lattice-like macromolecules: analysis of the McGhee-von Hippel theory implemented in isothermal titration calorimetry. *Analytical Biochemistry*, **2006**, 348, 94-104	3.1	24
23	Thermodynamic analysis of ferrous ion binding to Escherichia coli ferritin EcFtnA. *Biochemistry*, **2005**, 44, 13837-46	3.2	24
22	ITC in the post-genomic era...? Priceless. *Biophysical Chemistry*, **2005**, 115, 115-24	3.5	172
21	Characterization of protein-protein interactions by isothermal titration calorimetry. *Methods in Molecular Biology*, **2004**, 261, 35-54	1.4	134
20	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	4.2	49
19	Identification of novel inhibitors of the SARS coronavirus main protease 3CLpro. *Biochemistry*, **2004** , 43, 4906-12	3.2	180
18	Isothermal titration calorimetry. *Current Protocols in Cell Biology*, **2004**, Chapter 17, Unit 17.8	2.3	97
17	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, 1787-99	5.6	63
16	Structural and thermodynamic basis of resistance to HIV-1 protease inhibition: implications for inhibitor design. *Current Drug Targets Infectious Disorders*, **2003**, 3, 311-28		48
15	Protease inhibition in African subtypes of HIV-1. *AIDS Reviews*, **2003**, 5, 165-71	1.5	32
14	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, 1908-16	6.3	85
13	Amplification of the effects of drug resistance mutations by background polymorphisms in HIV-1 protease from African subtypes. *Biochemistry*, **2002**, 41, 8613-9	3.2	84

12	The application of thermodynamic methods in drug design. *Thermochimica Acta*, **2001**, 380, 217-227	2.9	42
11	Incorporating target heterogeneity in drug design. *Journal of Cellular Biochemistry*, **2001**, Suppl 37, 82-8	4.7	27
10	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, 6062-7	11.5	123
9	The binding energetics of first- and second-generation HIV-1 protease inhibitors: implications for drug design. *Archives of Biochemistry and Biophysics*, **2001**, 390, 169-75	4.1	135
8	Thermodynamic dissection of the binding energetics of KNI-272, a potent HIV-1 protease inhibitor. *Protein Science*, **2000**, 9, 1801-9	6.3	85
7	Thermodynamic basis of resistance to HIV-1 protease inhibition: calorimetric analysis of the V82F/I84V active site resistant mutant. *Biochemistry*, **2000**, 39, 11876-83	3.2	111
6	HIV-1 protease inhibitors: enthalpic versus entropic optimization of the binding affinity. *Biochemistry*, **2000**, 39, 2201-7	3.2	131
5	Determination of the Rigorous Transfer Function of An Isothermal Titration Microcalorimeter with Peltier Compensation. *Magyar Apr□ad K□elem□yek*, **1999**, 57, 343-359	0	11
4	New Measuring Method in Isothermal Titration Calorimetry Based on a Proportional-Integral Controlled System. *Magyar Apr□ad K□elem□yek*, **1998**, 52, 881-894	0	4
3	Mitochondrial cytochrome c liberates the nucleophosmin-sequestered ARF tumor suppressor in the nucleolus		1
2	Tyrosinase from mushroom Agaricus bisporus as an inhibitor of the Hepatitis C virus		2
1	Mechanism of the allosteric activation of the ClpP protease machinery by substrates and active-site inhibitors		1