

JiÅÃ- ÄŒernÃ½

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3338868/publications.pdf>

Version: 2024-02-01

88
papers

5,464
citations

172207

29
h-index

79541

73
g-index

91
all docs

91
docs citations

91
times ranked

6337
citing authors

#	ARTICLE	IF	CITATIONS
19	Ubiquinone-binding site mutagenesis reveals the role of mitochondrial complex II in cell death initiation. <i>Cell Death and Disease</i> , 2015, 6, e1749-e1749.	2.7	47
20	The Amino Group in Adenine: MP2 and CCSD(T) Complete Basis Set Limit Calculations of the Planarization Barrier and DFT/B3LYP Study of the Anharmonic Frequencies of Adenine. <i>Journal of Physical Chemistry B</i> , 2008, 112, 16734-16740.	1.2	46
21	Preferential Inhibition of Tonically over Phasically Activated NMDA Receptors by Pregnane Derivatives. <i>Journal of Neuroscience</i> , 2016, 36, 2161-2175.	1.7	44
22	Surface Expression, Function, and Pharmacology of Disease-Associated Mutations in the Membrane Domain of the Human GluN2B Subunit. <i>Frontiers in Molecular Neuroscience</i> , 2018, 11, 110.	1.4	41
23	Thermodynamic Penalty Arising from Burial of a Ligand Polar Group Within a Hydrophobic Pocket of a Protein Receptor. <i>Journal of Molecular Biology</i> , 2006, 362, 994-1003.	2.0	39
24	Local dynamics of proteins and DNA evaluated from crystallographic Bfactors. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2014, 70, 2413-2419.	2.5	38
25	Rigid Duplex β -Cyclodextrin Reversibly Connected With Disulfide Bonds. Synthesis and Inclusion Complexes. <i>Journal of Organic Chemistry</i> , 2009, 74, 1082-1092.	1.7	36
26	State of the art theoretical study and comparison to experiment for the phenol \bar{c} argon complex. <i>Journal of Chemical Physics</i> , 2008, 128, 114319.	1.2	33
27	Human interleukin α 23 receptor antagonists derived from an albumin α binding domain scaffold inhibit IL α 23 α -dependent <i>in vivo</i> expansion of IL α 17 α -producing T α cells. <i>Proteins: Structure, Function and Bioinformatics</i> , 2014, 82, 975-989.	1.5	31
28	Theoretical study of the ground and excited states of 7-methyl guanine and 9-methyl guanine: comparison with experiment. <i>Physical Chemistry Chemical Physics</i> , 2006, 8, 3059-3065.	1.3	30
29	Chemical Cross-Linking and H/D Exchange for Fast Refinement of Protein Crystal Structure. <i>Analytical Chemistry</i> , 2012, 84, 867-870.	3.2	30
30	Novel high α -affinity binders of human interferon gamma derived from albumin α binding domain of protein C. <i>Proteins: Structure, Function and Bioinformatics</i> , 2012, 80, 774-789.	1.5	30
31	A unified dinucleotide alphabet describing both RNA and DNA structures. <i>Nucleic Acids Research</i> , 2020, 48, 6367-6381.	6.5	30
32	A Novel Anti-CD 18 mAb Recognizes an Activation-Related Epitope and Induces a High-Affinity Conformation in Leukocyte Integrins. <i>Immunobiology</i> , 2001, 203, 687-698.	0.8	29
33	Dispersion Interactions Govern the Strong Thermal Stability of a Protein. <i>Chemistry - A European Journal</i> , 2007, 13, 9022-9027.	1.7	29
34	Density-Functional, Density-Functional Tight-Binding, and Wave Function Calculations on Biomolecular Systems α . <i>Journal of Physical Chemistry A</i> , 2007, 111, 5642-5647.	1.1	27
35	Competition between stacking and hydrogen bonding: theoretical study of the phenol \bar{c} Ar cation and neutral complex and comparison to experiment. <i>Physical Chemistry Chemical Physics</i> , 2008, 10, 2780.	1.3	26
36	CD9 and CD81 Interactions and Their Structural Modelling in Sperm Prior to Fertilization. <i>International Journal of Molecular Sciences</i> , 2018, 19, 1236.	1.8	26

#	ARTICLE	IF	CITATIONS
37	The LILI Motif of M3-S2 Linkers Is a Component of the NMDA Receptor Channel Gate. <i>Frontiers in Molecular Neuroscience</i> , 2018, 11, 113.	1.4	25
38	Complete Basis Set Extrapolation and Hybrid Schemes for Geometry Gradients of Noncovalent Complexes. <i>Journal of Chemical Theory and Computation</i> , 2011, 7, 3924-3934.	2.3	24
39	A DNA structural alphabet provides new insight into DNA flexibility. <i>Acta Crystallographica Section D: Structural Biology</i> , 2018, 74, 52-64.	1.1	23
40	Loss of Dispersion Energy Changes the Stability and Folding/Unfolding Equilibrium of the Trp-Cage Protein. <i>Journal of Physical Chemistry B</i> , 2009, 113, 5657-5660.	1.2	21
41	Germline <i>SUCLG2</i> Variants in Patients With Pheochromocytoma and Paraganglioma. <i>Journal of the National Cancer Institute</i> , 2022, 114, 130-138.	3.0	21
42	Design of composite inhibitors targeting glutamate carboxypeptidase \llcorner : the importance of effector functionalities. <i>FEBS Journal</i> , 2016, 283, 130-143.	2.2	20
43	p19-targeted ABD-derived protein variants inhibit IL-23 binding and exert suppressive control over IL-23-stimulated expansion of primary human IL-17+ T-cells. <i>Autoimmunity</i> , 2017, 50, 102-113.	1.2	20
44	Engineered <i>Lactococcus lactis</i> Secreting IL-23 Receptor-Targeted REX Protein Blockers for Modulation of IL-23/Th17-Mediated Inflammation. <i>Microorganisms</i> , 2019, 7, 152.	1.6	20
45	Site of Action of Brain Neurosteroid Pregnenolone Sulfate at the N-Methyl-D-Aspartate Receptor. <i>Journal of Neuroscience</i> , 2020, 40, 5922-5936.	1.7	18
46	Automatic workflow for the classification of local DNA conformations. <i>BMC Bioinformatics</i> , 2013, 14, 205.	1.2	17
47	p19-Targeting ILP Protein Blockers of IL-23/Th-17 Pro-Inflammatory Axis Displayed on Engineered Bacteria of Food Origin. <i>International Journal of Molecular Sciences</i> , 2018, 19, 1933.	1.8	16
48	NMDA Receptor Opening and Closing ^Å Transitions of a Molecular Machine Revealed by Molecular Dynamics. <i>Biomolecules</i> , 2019, 9, 546.	1.8	15
49	Effect of Noncovalent Interactions on Conformers of the <i>n</i> - <i>i</i> Butylbenzene Monomer Studied by Mass Analyzed Threshold Ionization Spectroscopy and Basis-set Convergent <i>ab initio</i> Computations. <i>Journal of Physical Chemistry A</i> , 2008, 112, 5866-5871.	1.1	14
50	Structural characterization of P1 ^Å -diversified urea-based inhibitors of glutamate carboxypeptidase II. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2014, 24, 2340-2345.	1.0	14
51	Addressing the Compartmentalization of Specific Integrin Heterodimers in Mouse Sperm. <i>International Journal of Molecular Sciences</i> , 2019, 20, 1004.	1.8	13
52	Structural alphabets for conformational analysis of nucleic acids available at dnatco.datmos.org . <i>Acta Crystallographica Section D: Structural Biology</i> , 2020, 76, 805-813.	1.1	13
53	Increasing Affinity of Interferon- \llcorner Receptor 1 to Interferon- \llcorner by Computer-Aided Design. <i>BioMed Research International</i> , 2013, 2013, 1-12.	0.9	12
54	Crystal structure of human interferon- \llcorner receptor 2 reveals the structural basis for receptor specificity. <i>Acta Crystallographica Section D: Structural Biology</i> , 2016, 72, 1017-1025.	1.1	12

#	ARTICLE	IF	CITATIONS
55	DNATCO: assignment of DNA conformers at dnatco.org. <i>Nucleic Acids Research</i> , 2016, 44, W284-W287.	6.5	12
56	Palmitoylation Controls NMDA Receptor Function and Steroid Sensitivity. <i>Journal of Neuroscience</i> , 2021, 41, 2119-2134.	1.7	12
57	Study of the Origin of the Hindered Rotation of an Aryl Ring in Chromium Aminocarbene Complexes Bearing an Aromatic Ring Attached to the Carbene Carbon Atom. <i>Organometallics</i> , 2006, 25, 5540-5548.	1.1	11
58	Cation-π complexes between alkali metal cation and para-halogenophenols. Structures, binding energies and thermodynamic properties: DFT study and CCSD(T) complete basis set limit calculations. <i>Molecular Physics</i> , 2006, 104, 2317-2325.	0.8	10
59	Spectral shifts and structures of phenol- <i>n</i> -Ar _n clusters. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 6077.	1.3	9
60	Affinity of vitamin E analogues for the ubiquinone complex II site correlates with their toxicity to cancer cells. <i>Molecular Nutrition and Food Research</i> , 2011, 55, 1543-1551.	1.5	9
61	A DNA Structural Alphabet Distinguishes Structural Features of DNA Bound to Regulatory Proteins and in the Nucleosome Core Particle. <i>Genes</i> , 2017, 8, 278.	1.0	9
62	ABD-Derived Protein Blockers of Human IL-17 Receptor A as Non-IgG Alternatives for Modulation of IL-17-Dependent Pro-Inflammatory Axis. <i>International Journal of Molecular Sciences</i> , 2018, 19, 3089.	1.8	9
63	Expression and distribution of CD151 as a partner of alpha6 integrin in male germ cells. <i>Scientific Reports</i> , 2020, 10, 4374.	1.6	9
64	WatAA: Atlas of Protein Hydration. Exploring synergies between data mining and ab initio calculations. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 17094-17102.	1.3	8
65	Protein Binder (ProBi) as a New Class of Structurally Robust Non-Antibody Protein Scaffold for Directed Evolution. <i>Viruses</i> , 2021, 13, 190.	1.5	7
66	Reprogramming of leukemic cell metabolism through the naphthoquinonic compound Quambalarine B. <i>Oncotarget</i> , 2017, 8, 103137-103153.	0.8	6
67	Proteins mimicking epitope of HIV-1 virus neutralizing antibody induce virus-neutralizing sera in mice. <i>EBioMedicine</i> , 2019, 47, 247-256.	2.7	6
68	Pregnane-based steroids are novel positive NMDA receptor modulators that may compensate for the effect of loss of function disease-associated GRIN mutations. <i>British Journal of Pharmacology</i> , 2022, 179, 3970-3990.	2.7	6
69	Energy barriers between H-bonded and stacked structures of 9-methyladenine-1-methylthymine and 9-methylguanine-1-methylcytosine complexes. <i>Chemical Communications</i> , 2010, 46, 383-385.	2.2	5
70	Redesigning Protein Cavities as a Strategy for Increasing Affinity in Protein-Protein Interaction: Interferon-β Receptor 1 as a Model. <i>BioMed Research International</i> , 2015, 2015, 1-12.	0.9	5
71	A Hybrid Hamiltonian for the Accelerated Sampling along Experimental Restraints. <i>International Journal of Molecular Sciences</i> , 2019, 20, 370.	1.8	5
72	Molecular dynamics simulations provide structural insight into binding of cyclic dinucleotides to human STING protein. <i>Journal of Biomolecular Structure and Dynamics</i> , 2022, 40, 10250-10264.	2.0	5

#	ARTICLE	IF	CITATIONS
73	The crystal structure of XdpB, the bacterial old yellow enzyme, in an FMN-free form. PLoS ONE, 2018, 13, e0195299.	1.1	4
74	Retro operation on the Trp-cage miniprotein sequence produces an unstructured molecule capable of folding similar to the original only upon 2,2,2-trifluoroethanol addition. Protein Engineering, Design and Selection, 2014, 27, 463-472.	1.0	3
75	Enriched Conformational Sampling of DNA and Proteins with a Hybrid Hamiltonian Derived from the Protein Data Bank. International Journal of Molecular Sciences, 2018, 19, 3405.	1.8	3
76	Effect of Noncovalent Interactions on the n-Butylbenzene-Ä-Ä-Ä-Ar Cluster Studied by Mass Analyzed Threshold Ionization Spectroscopy and ab initio Computations. Journal of Physical Chemistry A, 2008, 112, 5872-5877.	1.1	2
77	Motif orientation matters: Structural characterization of TEAD1 recognition of genomic DNA. Structure, 2021, 29, 345-356.e8.	1.6	2
78	Myomedin scaffold variants targeted to 10E8 HIV-1 broadly neutralizing antibody mimic gp41 epitope and elicit HIV-1 virus-neutralizing sera in mice. Virulence, 2021, 12, 1271-1287.	1.8	2
79	Local dynamics of proteins and DNA evaluated from crystallographic B-factors. Acta Crystallographica Section A: Foundations and Advances, 2014, 70, C1513-C1513.	0.0	2
80	Structural variability of CG-rich DNA 18-mers accommodating double TÄ-T mismatches. Acta Crystallographica Section D: Structural Biology, 2020, 76, 1233-1243.	1.1	2
81	Threshold ionization spectroscopic investigation of supersonic jet-cooled, laser-desorbed Tryptophan. Chemical Physics Letters, 2016, 657, 142-147.	1.2	1
82	Evidence for the Association between the Intronic Haplotypes of Ionotropic Glutamate Receptors and First-Episode Schizophrenia. Journal of Personalized Medicine, 2021, 11, 1250.	1.1	1
83	How to fragment a polypeptide? An ab initio computational study of pair interactions between amino acids and ligand-amino acids in proteins. Collection of Czechoslovak Chemical Communications, 2011, 76, 605-618.	1.0	0
84	Design and Testing of High-Affinity Mutants of Interferon Gamma Receptor 1. Biophysical Journal, 2013, 104, 558a.	0.2	0
85	Function, Expression, and Pharmacology of Disease-Associated Mutations of NMDA Receptors. Biophysical Journal, 2018, 114, 309a.	0.2	0
86	Novel Germline <i>SUCLG2</i> Mutations in Patients With Pheochromocytoma and Paraganglioma. Journal of the Endocrine Society, 2021, 5, A168-A169.	0.1	0
87	DNA structural alphabet opens ways to understand proteinÄ-DNA interactions. Acta Crystallographica Section A: Foundations and Advances, 2017, 73, C450-C450.	0.0	0
88	Structural alphabets for conformational analysis of nucleic acids. Acta Crystallographica Section A: Foundations and Advances, 2019, 75, e102-e102.	0.0	0