

# JiÅÃ- ÄŒernÃ½

## List of Publications by Year in descending order

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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
1	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
2	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
3	Pregnane-based steroids are novel positive NMDA receptor modulators that may compensate for the effect of loss-of-function disease-associated <i>GRIN</i> mutations. <i>British Journal of Pharmacology</i> , 2022, 179, 3970-3990.	2.7	6
4	Motif orientation matters: Structural characterization of TEAD1 recognition of genomic DNA. <i>Structure</i> , 2021, 29, 345-356.e8.	1.6	2
5	Myomedin scaffold variants targeted to 10E8 HIV-1 broadly neutralizing antibody mimic gp41 epitope and elicit HIV-1 virus-neutralizing sera in mice. <i>Virulence</i> , 2021, 12, 1271-1287.	1.8	2
6	Palmitoylation Controls NMDA Receptor Function and Steroid Sensitivity. <i>Journal of Neuroscience</i> , 2021, 41, 2119-2134.	1.7	12
7	Novel Germline <i>SUCLG2</i> Mutations in Patients With Pheochromocytoma and Paraganglioma. <i>Journal of the Endocrine Society</i> , 2021, 5, A168-A169.	0.1	0
8	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
9	Evidence for the Association between the Intronic Haplotypes of Ionotropic Glutamate Receptors and First-Episode Schizophrenia. <i>Journal of Personalized Medicine</i> , 2021, 11, 1250.	1.1	1
10	A unified dinucleotide alphabet describing both RNA and DNA structures. <i>Nucleic Acids Research</i> , 2020, 48, 6367-6381.	6.5	30
11	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
12	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
13	Structural alphabets for conformational analysis of nucleic acids available at <a href="http://dnatco.datmos.org">dnatco.datmos.org</a> . <i>Acta Crystallographica Section D: Structural Biology</i> , 2020, 76, 805-813.	1.1	13
14	Structural variability of CG-rich DNA 18-mers accommodating double T-T mismatches. <i>Acta Crystallographica Section D: Structural Biology</i> , 2020, 76, 1233-1243.	1.1	2
15	NMDA Receptor Opening and Closing Transitions of a Molecular Machine Revealed by Molecular Dynamics. <i>Biomolecules</i> , 2019, 9, 546.	1.8	15
16	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
17	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
18	Addressing the Compartmentalization of Specific Integrin Heterodimers in Mouse Sperm. <i>International Journal of Molecular Sciences</i> , 2019, 20, 1004.	1.8	13

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19	A Hybrid Hamiltonian for the Accelerated Sampling along Experimental Restraints. <i>International Journal of Molecular Sciences</i> , 2019, 20, 370.	1.8	5
20	Structural alphabets for conformational analysis of nucleic acids. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2019, 75, e102-e102.	0.0	0
21	Function, Expression, and Pharmacology of Disease-Associated Mutations of NMDA Receptors. <i>Biophysical Journal</i> , 2018, 114, 309a.	0.2	0
22	Enriched Conformational Sampling of DNA and Proteins with a Hybrid Hamiltonian Derived from the Protein Data Bank. <i>International Journal of Molecular Sciences</i> , 2018, 19, 3405.	1.8	3
23	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
24	The crystal structure of XdpB, the bacterial old yellow enzyme, in an FMN-free form. <i>PLoS ONE</i> , 2018, 13, e0195299.	1.1	4
25	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
26	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
27	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
28	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
29	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
30	Selective Disruption of Respiratory Supercomplexes as a New Strategy to Suppress Her2 <sup>high</sup> Breast Cancer. <i>Antioxidants and Redox Signaling</i> , 2017, 26, 84-103.	2.5	93
31	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
32	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
33	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
34	Reprogramming of leukemic cell metabolism through the naphthoquinonic compound Quambalarine B. <i>Oncotarget</i> , 2017, 8, 103137-103153.	0.8	6
35	DNA structural alphabet opens ways to understand protein-DNA interactions. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2017, 73, C450-C450.	0.0	0
36	Mitochondrial Targeting of Metformin Enhances Its Activity against Pancreatic Cancer. <i>Molecular Cancer Therapeutics</i> , 2016, 15, 2875-2886.	1.9	65

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37	Crystal structure of human interferon- $\beta$ receptor 2 reveals the structural basis for receptor specificity. <i>Acta Crystallographica Section D: Structural Biology</i> , 2016, 72, 1017-1025.	1.1	12
38	Threshold ionization spectroscopic investigation of supersonic jet-cooled, laser-desorbed Tryptophan. <i>Chemical Physics Letters</i> , 2016, 657, 142-147.	1.2	1
39	DNATCO: assignment of DNA conformers at dnatco.org. <i>Nucleic Acids Research</i> , 2016, 44, W284-W287.	6.5	12
40	Design of composite inhibitors targeting glutamate carboxypeptidase <sc>II</sc>: the importance of effector functionalities. <i>FEBS Journal</i> , 2016, 283, 130-143.	2.2	20
41	Preferential Inhibition of Tonic over Phasically Activated NMDA Receptors by Pregnane Derivatives. <i>Journal of Neuroscience</i> , 2016, 36, 2161-2175.	1.7	44
42	Block of NMDA receptor channels by endogenous neurosteroids: implications for the agonist induced conformational states of the channel vestibule. <i>Scientific Reports</i> , 2015, 5, 10935.	1.6	52
43	Protein flexibility in the light of structural alphabets. <i>Frontiers in Molecular Biosciences</i> , 2015, 2, 20.	1.6	71
44	Redesigning Protein Cavities as a Strategy for Increasing Affinity in Protein-Protein Interaction: Interferon- $\beta$ Receptor 1 as a Model. <i>BioMed Research International</i> , 2015, 2015, 1-12.	0.9	5
45	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
46	Bordetella adenylate cyclase toxin is a unique ligand of the integrin complement receptor 3. <i>ELife</i> , 2015, 4, e10766.	2.8	65
47	Bioinformatic analysis of the protein/DNA interface. <i>Nucleic Acids Research</i> , 2014, 42, 3381-3394.	6.5	51
48	Local dynamics of proteins and DNA evaluated from crystallographic B-factors. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2014, 70, 2413-2419.	2.5	38
49	Structural characterization of P1 $\alpha$ -diversified urea-based inhibitors of glutamate carboxypeptidase II. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2014, 24, 2340-2345.	1.0	14
50	Human interleukin-23 receptor antagonists derived from an albumin-binding domain scaffold inhibit IL-23-dependent <i>ex vivo</i> expansion of IL-17-producing T $\alpha$ cells. <i>Proteins: Structure, Function and Bioinformatics</i> , 2014, 82, 975-989.	1.5	31
51	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. <i>Protein Engineering, Design and Selection</i> , 2014, 27, 463-472.	1.0	3
52	Structure, Function, and Pharmacology of NMDA Receptor Channels. <i>Physiological Research</i> , 2014, 63, S191-S203.	0.4	216
53	Local dynamics of proteins and DNA evaluated from crystallographic B-factors. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2014, 70, C1513-C1513.	0.0	2
54	Automatic workflow for the classification of local DNA conformations. <i>BMC Bioinformatics</i> , 2013, 14, 205.	1.2	17

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55	Design and Testing of High-Affinity Mutants of Interferon Gamma Receptor 1. <i>Biophysical Journal</i> , 2013, 104, 558a.	0.2	0
56	Increasing Affinity of Interferon- $\gamma$ Receptor 1 to Interferon- $\gamma$ by Computer-Aided Design. <i>BioMed Research International</i> , 2013, 2013, 1-12.	0.9	12
57	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
58	Novel high-affinity binders of human interferon gamma derived from albumin-binding domain of protein G. <i>Proteins: Structure, Function and Bioinformatics</i> , 2012, 80, 774-789.	1.5	30
59	Spectral shifts and structures of phenol-Arn clusters. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 6077.	1.3	9
60	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
61	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
62	How to fragment a polypeptide? An ab initio computational study of pair interactions between amino acids and ligand-amino acids in proteins. <i>Collection of Czechoslovak Chemical Communications</i> , 2011, 76, 605-618.	1.0	0
63	Mitochondrial Targeting of Vitamin E Succinate Enhances Its Pro-apoptotic and Anti-cancer Activity via Mitochondrial Complex II. <i>Journal of Biological Chemistry</i> , 2011, 286, 3717-3728.	1.6	171
64	On the Structure and Geometry of Biomolecular Binding Motifs (Hydrogen-Bonding, Stacking, X <sup>H</sup> -H <sup>A</sup> -H <sup>I</sup> ): WFT and DFT Calculations. <i>Journal of Chemical Theory and Computation</i> , 2010, 6, 66-80.	2.3	175
65	Toward Designed Singlet Fission: Electronic States and Photophysics of 1,3-Diphenylisobenzofuran. <i>Journal of Physical Chemistry A</i> , 2010, 114, 1457-1473.	1.1	98
66	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
67	Scaled MP3 Non-Covalent Interaction Energies Agree Closely with Accurate CCSD(T) Benchmark Data. <i>ChemPhysChem</i> , 2009, 10, 282-289.	1.0	232
68	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
69	Rigid Duplex $\beta$ -Cyclodextrin Reversibly Connected With Disulfide Bonds. <i>Synthesis and Inclusion Complexes. Journal of Organic Chemistry</i> , 2009, 74, 1082-1092.	1.7	36
70	Competition between stacking and hydrogen bonding: theoretical study of the phenol-Ar cation and neutral complex and comparison to experiment. <i>Physical Chemistry Chemical Physics</i> , 2008, 10, 2780.	1.3	26
71	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
72	State of the art theoretical study and comparison to experiment for the phenol-argon complex. <i>Journal of Chemical Physics</i> , 2008, 128, 114319.	1.2	33

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73	Effect of Noncovalent Interactions on the n-Butylbenzene-Ä-Ä-Ar Cluster Studied by Mass Analyzed Threshold Ionization Spectroscopy and ab initio Computations. <i>Journal of Physical Chemistry A</i> , 2008, 112, 5872-5877.	1.1	2
74	Effect of Noncovalent Interactions on Conformers of the n-Butylbenzene Monomer Studied by Mass Analyzed Threshold Ionization Spectroscopy and Basis-set Convergent ab initio Computations. <i>Journal of Physical Chemistry A</i> , 2008, 112, 5866-5871.	1.1	14
75	Double-Helical ' Ladder Structural Transition in the B-DNA is Induced by a Loss of Dispersion Energy. <i>Journal of the American Chemical Society</i> , 2008, 130, 16055-16059.	6.6	81
76	Quantum Chemical Benchmark Energy and Geometry Database for Molecular Clusters and Complex Molecular Systems ( <a href="http://www.begdb.com">www.begdb.com</a> ): A Users Manual and Examples. <i>Collection of Czechoslovak Chemical Communications</i> , 2008, 73, 1261-1270.	1.0	144
77	Resolution of Identity Density Functional Theory Augmented with an Empirical Dispersion Term (RI-DFT-D): A Promising Tool for Studying Isolated Small Peptides. <i>Journal of Physical Chemistry A</i> , 2007, 111, 1146-1154.	1.1	66
78	Non-covalent interactions in biomacromolecules. <i>Physical Chemistry Chemical Physics</i> , 2007, 9, 5291.	1.3	391
79	Density-Functional, Density-Functional Tight-Binding, and Wave Function Calculations on Biomolecular Systems. <i>Journal of Physical Chemistry A</i> , 2007, 111, 5642-5647.	1.1	27
80	Dispersion Interactions Govern the Strong Thermal Stability of a Protein. <i>Chemistry - A European Journal</i> , 2007, 13, 9022-9027.	1.7	29
81	Density functional theory augmented with an empirical dispersion term. Interaction energies and geometries of 80 noncovalent complexes compared with ab initio quantum mechanics calculations. <i>Journal of Computational Chemistry</i> , 2007, 28, 555-569.	1.5	620
82	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
83	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
84	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
85	Benchmark database of accurate (MP2 and CCSD(T) complete basis set limit) interaction energies of small model complexes, DNA base pairs, and amino acid pairs. <i>Physical Chemistry Chemical Physics</i> , 2006, 8, 1985-1993.	1.3	1,635
86	Cation- 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
87	The X3LYP extended density functional accurately describes H-bonding but fails completely for stacking. <i>Physical Chemistry Chemical Physics</i> , 2005, 7, 1624-1626.	1.3	141
88	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