Holger Gohlke

List of Publications by Citations

Source: https://exaly.com/author-pdf/1731220/holger-gohlke-publications-by-citations.pdf

Version: 2024-04-23

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

228 17,969 132 45 h-index g-index citations papers 6.8 263 20,978 5.9 L-index avg, IF ext. citations ext. papers

#	Paper	IF	Citations
228	The Amber biomolecular simulation programs. <i>Journal of Computational Chemistry</i> , 2005 , 26, 1668-88	3.5	6155
227	MMPBSA.py: An Efficient Program for End-State Free Energy Calculations. <i>Journal of Chemical Theory and Computation</i> , 2012 , 8, 3314-21	6.4	1807
226	Insights into protein-protein binding by binding free energy calculation and free energy decomposition for the Ras-Raf and Ras-RalGDS complexes. <i>Journal of Molecular Biology</i> , 2003 , 330, 891	-913	924
225	Knowledge-based scoring function to predict protein-ligand interactions. <i>Journal of Molecular Biology</i> , 2000 , 295, 337-56	6.5	871
224	Converging free energy estimates: MM-PB(GB)SA studies on the protein-protein complex Ras-Raf. <i>Journal of Computational Chemistry</i> , 2004 , 25, 238-50	3.5	652
223	Approaches to the description and prediction of the binding affinity of small-molecule ligands to macromolecular receptors. <i>Angewandte Chemie - International Edition</i> , 2002 , 41, 2644-76	16.4	595
222	Free Energy Calculations by the Molecular Mechanics Poisson-Boltzmann Surface Area Method. <i>Molecular Informatics</i> , 2012 , 31, 114-22	3.8	563
221	Assessing scoring functions for protein-ligand interactions. <i>Journal of Medicinal Chemistry</i> , 2004 , 47, 3032-47	8.3	433
220	A toolkit and benchmark study for FRET-restrained high-precision structural modeling. <i>Nature Methods</i> , 2012 , 9, 1218-25	21.6	296
219	DrugScore(CSD)-knowledge-based scoring function derived from small molecule crystal data with superior recognition rate of near-native ligand poses and better affinity prediction. <i>Journal of Medicinal Chemistry</i> , 2005 , 48, 6296-303	8.3	284
218	Target flexibility: an emerging consideration in drug discovery and design. <i>Journal of Medicinal Chemistry</i> , 2008 , 51, 6237-55	8.3	244
217	Statistical potentials and scoring functions applied to protein-ligand binding. <i>Current Opinion in Structural Biology</i> , 2001 , 11, 231-5	8.1	174
216	Targeting protein-protein interactions with small molecules: challenges and perspectives for computational binding epitope detection and ligand finding. <i>Current Medicinal Chemistry</i> , 2006 , 13, 260	7⁴2 35	144
215	DrugScore meets CoMFA: adaptation of fields for molecular comparison (AFMoC) or how to tailor knowledge-based pair-potentials to a particular protein. <i>Journal of Medicinal Chemistry</i> , 2002 , 45, 4153-	70 3	134
214	A natural coarse graining for simulating large biomolecular motion. <i>Biophysical Journal</i> , 2006 , 91, 2115-	20 .9	123
213	DrugScorePPI webserver: fast and accurate in silico alanine scanning for scoring protein-protein interactions. <i>Nucleic Acids Research</i> , 2010 , 38, W480-6	20.1	118
212	Histone deacetylase (HDAC) inhibitors with a novel connecting unit linker region reveal a selectivity profile for HDAC4 and HDAC5 with improved activity against chemoresistant cancer cells. <i>Journal of Medicinal Chemistry</i> , 2013 , 56, 427-36	8.3	116

(2020-2003)

211	Ligand-supported homology modelling of protein binding-sites using knowledge-based potentials. Journal of Molecular Biology, 2003 , 334, 327-45	6.5	116
210	Hot spots and transient pockets: predicting the determinants of small-molecule binding to a protein-protein interface. <i>Journal of Chemical Information and Modeling</i> , 2012 , 52, 120-33	6.1	106
209	Binding Free Energy Calculations for Lead Optimization: Assessment of Their Accuracy in an Industrial Drug Design Context. <i>Journal of Chemical Theory and Computation</i> , 2014 , 10, 3331-44	6.4	104
208	Protein rigidity and thermophilic adaptation. <i>Proteins: Structure, Function and Bioinformatics</i> , 2011 , 79, 1089-108	4.2	104
207	Quantitative FRET studies and integrative modeling unravel the structure and dynamics of biomolecular systems. <i>Current Opinion in Structural Biology</i> , 2016 , 40, 163-185	8.1	102
206	CNA web server: rigidity theory-based thermal unfolding simulations of proteins for linking structure, (thermo-)stability, and function. <i>Nucleic Acids Research</i> , 2013 , 41, W340-8	20.1	97
205	Change in protein flexibility upon complex formation: analysis of Ras-Raf using molecular dynamics and a molecular framework approach. <i>Proteins: Structure, Function and Bioinformatics</i> , 2004 , 56, 322-37	4.2	94
204	Predicting binding modes, binding affinities and hot spotsSfor protein-ligand complexes using a knowledge-based scoring function. <i>Journal of Computer - Aided Molecular Design</i> , 2000 , 20, 115-144		86
203	Docking into knowledge-based potential fields: a comparative evaluation of DrugScore. <i>Journal of Medicinal Chemistry</i> , 2002 , 45, 1967-70	8.3	83
202	Structure-based computational analysis of protein binding sites for function and druggability prediction. <i>Journal of Biotechnology</i> , 2012 , 159, 123-34	3.7	82
201	Towards targeting protein-protein interfaces with small molecules. <i>Journal of Cheminformatics</i> , 2011 , 3,	8.6	78
200	DrugScoreRNAknowledge-based scoring function to predict RNA-ligand interactions. <i>Journal of Chemical Information and Modeling</i> , 2007 , 47, 1868-76	6.1	78
199	Multiscale modeling of macromolecular conformational changes combining concepts from rigidity and elastic network theory. <i>Proteins: Structure, Function and Bioinformatics</i> , 2006 , 63, 1038-51	4.2	78
198	FEW: a workflow tool for free energy calculations of ligand binding. <i>Journal of Computational Chemistry</i> , 2013 , 34, 965-73	3.5	73
197	Molecular recognition of RNA: challenges for modelling interactions and plasticity. <i>Journal of Molecular Recognition</i> , 2010 , 23, 220-31	2.6	69
196	Sequencing of FIC1, BSEP and MDR3 in a large cohort of patients with cholestasis revealed a high number of different genetic variants. <i>Journal of Hepatology</i> , 2017 , 67, 1253-1264	13.4	68
195	NMSim web server: integrated approach for normal mode-based geometric simulations of biologically relevant conformational transitions in proteins. <i>Nucleic Acids Research</i> , 2012 , 40, W310-6	20.1	64
194	A Novel Polyester Hydrolase From the Marine Bacterium Structural and Functional Insights. <i>Frontiers in Microbiology</i> , 2020 , 11, 114	5.7	62

Statics of the ribosomal exit tunnel: implications for cotranslational peptide folding, elongation regulation, and antibiotics binding. <i>Journal of Molecular Biology</i> , 2009 , 387, 502-17	6.5	60	
Platelets contribute to amyloid-laggregation in cerebral vessels through integrin lbB-induced outside-in signaling and clusterin release. <i>Science Signaling</i> , 2016 , 9, ra52	8.8	56	
Constraint Network Analysis (CNA): a Python software package for efficiently linking biomacromolecular structure, flexibility, (thermo-)stability, and function. <i>Journal of Chemical Information and Modeling</i> , 2013 , 53, 1007-15	6.1	56	
5 1-integrins are sensors for tauroursodeoxycholic acid in hepatocytes. <i>Hepatology</i> , 2013 , 57, 1117-29	11.2	56	
On the Effects of Reactive Oxygen Species and Nitric Oxide on Red Blood Cell Deformability. <i>Frontiers in Physiology</i> , 2018 , 9, 332	4.6	54	
A normal mode-based geometric simulation approach for exploring biologically relevant conformational transitions in proteins. <i>Journal of Chemical Information and Modeling</i> , 2011 , 51, 1604-22	6.1	53	
Synthesis and nicotinic binding studies on enantiopure diazine analogues of the novel (2-chloro-5-pyridyl)-9-azabicyclo[4.2.1]non-2-ene UB-165. <i>Journal of Medicinal Chemistry</i> , 2002 , 45, 1064	- 8 3	53	
Modulating protein-protein interactions: from structural determinants of binding to druggability prediction to application. <i>Current Pharmaceutical Design</i> , 2012 , 18, 4630-47	3.3	47	
PACKMOL-Memgen: A Simple-To-Use, Generalized Workflow for Membrane-Protein-Lipid-Bilayer System Building. <i>Journal of Chemical Information and Modeling</i> , 2019 , 59, 2522-2528	6.1	46	
Structural Rigidity and Protein Thermostability in Variants of Lipase A from Bacillus subtilis. <i>PLoS ONE</i> , 2015 , 10, e0130289	3.7	46	
Large-scale comparison of protein essential dynamics from molecular dynamics simulations and coarse-grained normal mode analyses. <i>Proteins: Structure, Function and Bioinformatics</i> , 2010 , 78, 3341-5	2 ^{4.2}	42	
Structure of Aquifex aeolicus argonaute highlights conformational flexibility of the PAZ domain as a potential regulator of RNA-induced silencing complex function. <i>Journal of Biological Chemistry</i> , 2007 , 282, 13824-32	5.4	41	
Analyzing the flexibility of RNA structures by constraint counting. <i>Biophysical Journal</i> , 2008 , 94, 4202-19	92.9	40	
Trading off stability against activity in extremophilic aldolases. <i>Scientific Reports</i> , 2016 , 6, 17908	4.9	39	
Molecular dynamics simulations and structure-guided mutagenesis provide insight into the architecture of the catalytic core of the ectoine hydroxylase. <i>Journal of Molecular Biology</i> , 2014 , 426, 586-600	6.5	39	
Effects of novel HDAC inhibitors on urothelial carcinoma cells. <i>Clinical Epigenetics</i> , 2018 , 10, 100	7.7	38	
Targeting HSP90 dimerization via the C terminus is effective in imatinib-resistant CML and lacks the heat shock response. <i>Blood</i> , 2018 , 132, 307-320	2.2	37	
Double-strand DNA end-binding and sliding of the toroidal CRISPR-associated protein Csn2. <i>Nucleic Acids Research</i> , 2013 , 41, 6347-59	20.1	37	
	regulation, and antibiotics binding. <i>Journal of Molecular Biology</i> , 2009 , 387, 502-17 Platelets contribute to amyloid-Bagregation in cerebral vessels through integrin BbB-induced outside-in signaling and clusterin release. <i>Science Signaling</i> , 2016 , 9, ra52 Constraint Network Analysis (CNA): a Python software package for efficiently linking biomacromolecular structure, flexibility, (thermo-)stability, and function. <i>Journal of Chemical Information and Modeling</i> , 2013 , 53, 1007-15 Bil-integrins are sensors for tauroursodeoxycholic acid in hepatocytes. <i>Hepatology</i> , 2013 , 57, 1117-29 On the Effects of Reactive Oxygen Species and Nitric Oxide on Red Blood Cell Deformability. <i>Frontiers in Physiology</i> , 2018 , 9, 332 A normal mode-based geometric simulation approach for exploring biologically relevant conformational transitions in proteins. <i>Journal of Chemical Information and Modeling</i> , 2011 , 51, 1604-22 Synthesis and nicotinic binding studies on enantiopure diazine analogues of the novel (2-chloro-5-pyridyl)-9-azabicyclo[4.2-1]non-2-ene UB-165. <i>Journal of Medicinal Chemistry</i> , 2002 , 45, 1064 Modulating protein-protein interactions: from structural determinants of binding to druggability prediction to application. <i>Current Pharmaceutical Design</i> , 2012 , 18, 4630-47 PACKMOL-Memgen: A Simple-To-Use, Generalized Workflow for Membrane-Protein-Lipid-Bilayer System Building. <i>Journal of Chemical Information and Modeling</i> , 2019 , 59, 2522-2528 Structural Rigidity and Protein Thermostability in Variants of Lipase A from Bacillus subtilis. <i>PLoS ONE</i> , 2015 , 10, e0130289 Large-scale comparison of protein essential dynamics from molecular dynamics simulations and coarse-grained normal mode analyses. <i>Proteins: Structure, Function and Bioinformatics</i> , 2010 , 78, 3341-5 Structure of Aquifex aeolicus argonaute highlights conformational flexibility of the PAZ domain as a potential regulator of RNA-induced silencing complex function. <i>Journal of Biological Chemistry</i> , 2007 , 282, 13824-32 Analyzing	regulation, and antibiotics binding. <i>Journal of Molecular Biology</i> , 2009, 387, 502-17 Platelets contribute to amyloid-faggregation in cerebral vessels through integrin RBB-induced outside-in signaling and clusterin release. <i>Science Signaling</i> , 2016, 9, ra52 Constraint Network Analysis (CNA): a ptynon software package for efficiently linking biomacromolecular structure, flexibility, (thermo-)stability, and function. <i>Journal of Chemical Information and Modeling</i> , 2013, 53, 1007-15 B l-integrins are sensors for tauroursodeoxycholic acid in hepatocytes. <i>Hepatology</i> , 2013, 57, 1117-29 11.2 On the Effects of Reactive Oxygen Species and Nitric Oxide on Red Blood Cell Deformability. <i>Frontiers in Physiology</i> , 2018, 9, 332 A normal mode-based geometric simulation approach for exploring biologically relevant conformational transitions in proteins. <i>Journal of Chemical Information and Modeling</i> , 2011, 51, 1604-22 6.1 Synthesis and nicotinic binding studies on enantiopure diazine analogues of the novel (2-chloro-5-pyridyl)-9-azabicyclo[4.2.1]non-2-ene UB-165. <i>Journal of Medicinal Chemistry</i> , 2002, 45, 1064-922 6.1 Modulating protein-protein interactions: from structural determinants of binding to druggability prediction to application. <i>Current Pharmaceutical Design</i> , 2012, 18, 4630-47 PACKMOL-Memgen: A Simple-To-Use, Generalized Workflow for Membrane-Protein-Lipid-Bilayer System Building. <i>Journal of Chemical Information and Modeling</i> , 2019, 59, 2522-2528 6.1 Structural Rigidity and Protein Thermostability in Variants of Lipase A from Bacillus subtilis. <i>PLoS ONE</i> , 2015, 10, e0130289 Large-scale comparison of protein essential dynamics from molecular dynamics simulations and coarse-grained normal mode analyses. <i>Proteins: Structure, Function and Bioinformatics</i> , 2010, 78, 3341-52 ¹⁻² Structure of Aquifex acolitics argonaute highlights conformational flexibility of the PAZ domain as a potential regulator of RNA-induced silencing complex function. <i>Journal of Biological Chemistry</i> , 2007, 282, 13824-32 An	Platelets contribute to amyloid-laggregation in cerebral vessels through integrin libal-induced outside-in signaling and dusterin release. Science Signaling, 2016, 9, 1632 Constraint Network Analysis (CNA): a Python software package for efficiently linking biomacromolecular structure, flexibility, (thermo-)stability, and function. Journal of Chemical Information and Modeling, 2013, 53, 1007-15 Bil-integrins are sensors for tauroursodeoxycholic acid in hepatocytes. Hepatology, 2013, 57, 1117-29 11.2 56 On the Effects of Reactive Oxygen Species and Nitric Oxide on Red Blood Cell Deformability. Frontiers in Physiology, 2018, 9, 332 A normal mode-based geometric simulation approach for exploring biologically relevant conformational transitions in proteins. Journal of Chemical Information and Modeling, 2011, 51, 1604-22 61 Synthesis and nicotinic binding studies on enantiopure diazine analogues of the novel (2-chloro-5-pyridyl)-9-azabicyclof. 2.1]non-2-ene UB-165. Journal of Medicinal Chemistry, 2002, 45, 1064-72 Synthesis and nicotinic binding studies on enantiopure diazine analogues of the novel (2-chloro-5-pyridyl)-9-azabicyclof. 2.1]non-2-ene UB-165. Journal of Medicinal Chemistry, 2002, 45, 1064-72 PACKMOL-Memgen: A Simple-To-Use, Generalized Workflow for Membrane-Protein-Lipid-Bilayer System Building. Journal of Chemical Information and Modeling, 2019, 59, 2522-2528 Structural Rigidity and Protein Thermostability in Variants of Lipase A From Bacillus subtilis. PLoS ONE, 2015, 10, e0130:289 Structure of Aquifex acolicus argonaute highlights conformational Riexibility of the PAz domain as a potential regulator of RNA-induced silencing complex function. Journal of Biological Chemistry, 54 Trading off stability against activity in extremophilic aldolases. Scientific Reports, 2016, 6, 17908 4.9 39 Molecular dynamics simulations and structure-guided mutagenesis provide insight into the architecture of the catalytic core of the ectoine hydroxylase. Journal of Molecular Biology, 2014, 426, 586-600 Effect

175	Pocket-space maps to identify novel binding-site conformations in proteins. <i>Journal of Chemical Information and Modeling</i> , 2011 , 51, 2666-79	6.1	37	
174	Thermostabilizing mutations preferentially occur at structural weak spots with a high mutation ratio. <i>Journal of Biotechnology</i> , 2012 , 159, 135-44	3.7	36	
173	Determinants of the unexpected stability of RNA fluorobenzene self pairs. ChemBioChem, 2008, 9, 2619	-3.8 -3.8	36	
172	3D QSAR analyses-guided rational design of novel ligands for the (alpha4)2(beta2)3 nicotinic acetylcholine receptor. <i>Journal of Medicinal Chemistry</i> , 2003 , 46, 2031-48	8.3	36	
171	Aromatic N versus aromatic F: bioisosterism discovered in RNA base pairing interactions leads to a novel class of universal base analogs. <i>Nucleic Acids Research</i> , 2010 , 38, 3133-46	20.1	35	
170	Dimer-tetramer transition controls RUNX1/ETO leukemogenic activity. <i>Blood</i> , 2010 , 116, 603-13	2.2	35	
169	Application of Rigidity Theory to the Thermostabilization of Lipase A from Bacillus subtilis. <i>PLoS Computational Biology</i> , 2016 , 12, e1004754	5	35	
168	Global and local indices for characterizing biomolecular flexibility and rigidity. <i>Journal of Computational Chemistry</i> , 2013 , 34, 220-33	3.5	33	
167	Starting structure dependence of NMR order parameters derived from MD simulations: implications for judging force-field quality. <i>Biophysical Journal</i> , 2008 , 95, L04-6	2.9	33	
166	Steering protein-ligand docking with quantitative NMR chemical shift perturbations. <i>Journal of Chemical Information and Modeling</i> , 2009 , 49, 2260-71	6.1	32	
165	Efficient Approximation of Ligand Rotational and Translational Entropy Changes upon Binding for Use in MM-PBSA Calculations. <i>Journal of Chemical Information and Modeling</i> , 2017 , 57, 170-189	6.1	31	
164	Resolving dynamics and function of transient states in single enzyme molecules. <i>Nature Communications</i> , 2020 , 11, 1231	17.4	31	
163	Structural basis of lantibiotic recognition by the nisin resistance protein from Streptococcus agalactiae. <i>Scientific Reports</i> , 2016 , 6, 18679	4.9	31	
162	Alkoxyurea-Based Histone Deacetylase Inhibitors Increase Cisplatin Potency in Chemoresistant Cancer Cell Lines. <i>Journal of Medicinal Chemistry</i> , 2017 , 60, 5334-5348	8.3	31	
161	Improving binding mode predictions by docking into protein-specifically adapted potential fields. Journal of Medicinal Chemistry, 2005 , 48, 5466-79	8.3	29	
160	HIV-1 TAR RNA spontaneously undergoes relevant apo-to-holo conformational transitions in molecular dynamics and constrained geometrical simulations. <i>Journal of Chemical Information and Modeling</i> , 2010 , 50, 1489-501	6.1	28	
159	Converging a Knowledge-Based Scoring Function: DrugScore. <i>Journal of Chemical Information and Modeling</i> , 2019 , 59, 509-521	6.1	28	
158	Systematic analysis of ATG13 domain requirements for autophagy induction. <i>Autophagy</i> , 2018 , 14, 743-7	763 .2	28	

157	Co-culture of the fungus with induces production of cryptic naphthoquinone dimers <i>RSC Advances</i> , 2019 , 9, 1491-1500	3.7	27
156	How good are state-of-the-art docking tools in predicting ligand binding modes in protein-protein interfaces?. <i>Journal of Chemical Information and Modeling</i> , 2012 , 52, 2807-11	6.1	27
155	Elastic potential grids: accurate and efficient representation of intermolecular interactions for fully flexible docking. <i>ChemMedChem</i> , 2009 , 4, 1264-8	3.7	26
154	Synthesis, Biological Evaluation and Molecular Modeling of Substituted Indeno[1,2-b]indoles as Inhibitors of Human Protein Kinase CK2. <i>Pharmaceuticals</i> , 2015 , 8, 279-302	5.2	25
153	Constraint counting on RNA structures: linking flexibility and function. <i>Methods</i> , 2009 , 49, 181-8	4.6	25
152	Design, Multicomponent Synthesis, and Anticancer Activity of a Focused Histone Deacetylase (HDAC) Inhibitor Library with Peptoid-Based Cap Groups. <i>Journal of Medicinal Chemistry</i> , 2017 , 60, 5493	-§ § 06	22
151	Mutational mapping of the transmembrane binding site of the G-protein coupled receptor TGR5 and binding mode prediction of TGR5 agonists. <i>European Journal of Medicinal Chemistry</i> , 2015 , 104, 57-7	. 6.8	22
150	Partially inserted nascent chain unzips the lateral gate of the Sec translocon. <i>EMBO Reports</i> , 2019 , 20, e48191	6.5	22
149	Arg149 is involved in switching the low affinity, open state of the binding protein AfProX into its high affinity, closed state. <i>Journal of Molecular Biology</i> , 2011 , 411, 36-52	6.5	22
148	Rigidity theory for biomolecules: concepts, software, and applications. <i>Wiley Interdisciplinary Reviews: Computational Molecular Science</i> , 2017 , 7, e1311	7.9	21
147	C-terminal modulators of heat shock protein of 90 kDa (HSP90): State of development and modes of action. <i>Bioorganic and Medicinal Chemistry</i> , 2019 , 27, 115080	3.4	21
146	The crystal structure of the CRISPR-associated protein Csn2 from Streptococcus agalactiae. <i>Journal of Structural Biology</i> , 2012 , 178, 350-62	3.4	21
145	Resolving hot spots in the C-terminal dimerization domain that determine the stability of the molecular chaperone Hsp90. <i>PLoS ONE</i> , 2014 , 9, e96031	3.7	21
144	Quantitative assessment of the determinant structural differences between redox-active and inactive glutaredoxins. <i>Nature Communications</i> , 2020 , 11, 1725	17.4	20
143	Binding region of alanopine dehydrogenase predicted by unbiased molecular dynamics simulations of ligand diffusion. <i>Journal of Chemical Information and Modeling</i> , 2013 , 53, 2493-8	6.1	20
142	Ensemble- and Rigidity Theory-Based Perturbation Approach To Analyze Dynamic Allostery. <i>Journal of Chemical Theory and Computation</i> , 2017 , 13, 6343-6357	6.4	20
141	Molecular Mechanisms of Glutamine Synthetase Mutations that Lead to Clinically Relevant Pathologies. <i>PLoS Computational Biology</i> , 2016 , 12, e1004693	5	20
140	Target Flexibility in RNA-Ligand Docking Modeled by Elastic Potential Grids. <i>ACS Medicinal Chemistry Letters</i> , 2011 , 2, 489-93	4.3	19

(2007-2019)

139	Calcium-Promoted Interaction between the C2-Domain Protein EHB1 and Metal Transporter IRT1 Inhibits Arabidopsis Iron Acquisition. <i>Plant Physiology</i> , 2019 , 180, 1564-1581	6.6	18	
138	Interpreting Thermodynamic Profiles of Aminoadamantane Compounds Inhibiting the M2 Proton Channel of Influenza A by Free Energy Calculations. <i>Journal of Chemical Information and Modeling</i> , 2016 , 56, 110-26	6.1	18	
137	Understanding the inhibitory effect of highly potent and selective archazolides binding to the vacuolar ATPase. <i>Journal of Chemical Information and Modeling</i> , 2012 , 52, 2265-72	6.1	18	
136	Alchemical Free Energy Calculations and Isothermal Titration Calorimetry Measurements of Aminoadamantanes Bound to the Closed State of Influenza A/M2TM. <i>Journal of Chemical Information and Modeling</i> , 2016 , 56, 862-76	6.1	18	
135	TopScore: Using Deep Neural Networks and Large Diverse Data Sets for Accurate Protein Model Quality Assessment. <i>Journal of Chemical Theory and Computation</i> , 2018 , 14, 6117-6126	6.4	18	
134	Recognition motif and mechanism of ripening inhibitory peptides in plant hormone receptor ETR1. <i>Scientific Reports</i> , 2018 , 8, 3890	4.9	17	
133	Structural assemblies of the di- and oligomeric G-protein coupled receptor TGR5 in live cells: an MFIS-FRET and integrative modelling study. <i>Scientific Reports</i> , 2016 , 6, 36792	4.9	17	
132	Design and synthesis of novel Y-shaped barbituric acid derivatives as PPARIactivators. <i>European Journal of Medicinal Chemistry</i> , 2016 , 108, 423-435	6.8	17	
131	Biallelic mutation of human encoding the taurine transporter TAUT is linked to early retinal degeneration. <i>FASEB Journal</i> , 2019 , 33, 11507-11527	0.9	17	
130	Efficient and robust analysis of biomacromolecular flexibility using ensembles of network topologies based on fuzzy noncovalent constraints. <i>Structure</i> , 2013 , 21, 1725-34	5.2	17	
129	DrugScorePPI knowledge-based potentials used as scoring and objective function in protein-protein docking. <i>PLoS ONE</i> , 2014 , 9, e89466	3.7	17	
128	Determinants of FIV and HIV Vif sensitivity of feline APOBEC3 restriction factors. <i>Retrovirology</i> , 2016 , 13, 46	3.6	17	
127	Interaction of Ochratoxin A and Its Thermal Degradation Product 2SOchratoxin A with Human Serum Albumin. <i>Toxins</i> , 2018 , 10,	4.9	17	
126	From determinants of RUNX1/ETO tetramerization to small-molecule protein-protein interaction inhibitors targeting acute myeloid leukemia. <i>Journal of Chemical Information and Modeling</i> , 2013 , 53, 2197-202	6.1	16	
125	Synthesis of Peptoid-Based Class I-Selective Histone Deacetylase Inhibitors with Chemosensitizing Properties. <i>Journal of Medicinal Chemistry</i> , 2019 , 62, 11260-11279	8.3	16	
124	Influence of the solvent representation on vibrational entropy calculations: generalized born versus distance-dependent dielectric model. <i>Journal of Computational Chemistry</i> , 2012 , 33, 1004-13	3.5	15	
123	Extension of the free energy workflow FEW towards implicit solvent/implicit membrane MM-PBSA calculations. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2015 , 1850, 972-982	4	15	
122	Consensus adaptation of fields for molecular comparison (AFMoC) models incorporate ligand and receptor conformational variability into tailor-made scoring functions. <i>Journal of Chemical Information and Modeling</i> , 2007 , 47, 2383-400	6.1	15	

121	Rigidity Theory-Based Approximation of Vibrational Entropy Changes upon Binding to Biomolecules. <i>Journal of Chemical Theory and Computation</i> , 2017 , 13, 1495-1502	6.4	14
120	Cosolvent-Enhanced Sampling and Unbiased Identification of Cryptic Pockets Suitable for Structure-Based Drug Design. <i>Journal of Chemical Theory and Computation</i> , 2019 , 15, 3331-3343	6.4	14
119	TopModel: Template-Based Protein Structure Prediction at Low Sequence Identity Using Top-Down Consensus and Deep Neural Networks. <i>Journal of Chemical Theory and Computation</i> , 2020 , 16, 1953-196	9 .4	14
118	Design and biological testing of peptidic dimerization inhibitors of human Hsp90 that target the C-terminal domain. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2016 , 1860, 1043-55	4	13
117	A membrane-proximal, C-terminal Helix is required for plasma membrane localization and function of the G Protein-coupled receptor (GPCR) TGR5. <i>Journal of Biological Chemistry</i> , 2014 , 289, 368	9 -1 02	13
116	Contribution of single amino acid and codon substitutions to the production and secretion of a lipase by Bacillus subtilis. <i>Microbial Cell Factories</i> , 2017 , 16, 160	6.4	13
115	Determinants of the species selectivity of oxazolidinone antibiotics targeting the large ribosomal subunit. <i>Biological Chemistry</i> , 2013 , 394, 1529-41	4.5	13
114	Activation of integrins by urea in perfused rat liver. <i>Journal of Biological Chemistry</i> , 2010 , 285, 29348-56	5.4	13
113	Resolving the negative potential side (n-side) water-accessible proton pathway of F-type ATP synthase by molecular dynamics simulations. <i>Journal of Biological Chemistry</i> , 2012 , 287, 36536-43	5.4	13
112	FK506 Resistance of Pdr5 and Cdr1 Involves Mutations in the Transmembrane Domains and Extracellular Loops. <i>Antimicrobial Agents and Chemotherapy</i> , 2019 , 63,	5.9	13
111	Chlorflavonin Targets Acetohydroxyacid Synthase Catalytic Subunit IlvB1 for Synergistic Killing of Mycobacterium tuberculosis. <i>ACS Infectious Diseases</i> , 2018 , 4, 123-134	5.5	13
110	Failure of the IDA in FRET Systems at Close Inter-Dye Distances Is Moderated by Frequent Low (2) Values. <i>Journal of Physical Chemistry B</i> , 2016 , 120, 8845-62	3.4	12
109	On the contributing role of the transmembrane domain for subunit-specific sensitivity of integrin activation. <i>Scientific Reports</i> , 2018 , 8, 5733	4.9	12
108	Structural Model of the ETR1 Ethylene Receptor Transmembrane Sensor Domain. <i>Scientific Reports</i> , 2019 , 9, 8869	4.9	12
107	EDTA aggregates induce SYPRO orange-based fluorescence in thermal shift assay. <i>PLoS ONE</i> , 2017 , 12, e0177024	3.7	12
106	Automated and optimally FRET-assisted structural modeling. <i>Nature Communications</i> , 2020 , 11, 5394	17.4	12
105	Aminoxy Oligopeptides: Synthesis, Secondary Structure, and Cytotoxicity of a New Class of Anticancer Foldamers. <i>Chemistry - A European Journal</i> , 2016 , 22, 17600-17611	4.8	12
104	Nutrient exchange in arbuscular mycorrhizal symbiosis from a thermodynamic point of view. <i>New Phytologist</i> , 2019 , 222, 1043-1053	9.8	12

(2021-2017)

Structural intermediates and directionality of the swiveling motion of Pyruvate Phosphate Dikinase. <i>Scientific Reports</i> , 2017 , 7, 45389	4.9	11
Conformations and lipophilicity profiles of some cyclic [(1-a)- and [(1-a)-linked oligogalactofuranosides. <i>Carbohydrate Research</i> , 1999 , 321, 96-104	2.9	11
Interdependence of a mechanosensitive anion channel and glutamate receptors in distal wound signaling. <i>Science Advances</i> , 2021 , 7, eabg4298	14.3	11
Novel 3,4-Dihydroisocoumarins Inhibit Human P-gp and BCRP in Multidrug Resistant Tumors and Demonstrate Substrate Inhibition of Yeast Pdr5. <i>Frontiers in Pharmacology</i> , 2019 , 10, 400	5.6	10
VisualCNA: a GUI for interactive constraint network analysis and protein engineering for improving thermostability. <i>Bioinformatics</i> , 2015 , 31, 2394-6	7.2	10
Binding modes of thioflavin T and Congo red to the fibril structure of amyloid-[11-42). <i>Chemical Communications</i> , 2020 , 56, 7589-7592	5.8	10
Quality matters: extension of clusters of residues with good hydrophobic contacts stabilize (hyper)thermophilic proteins. <i>Journal of Chemical Information and Modeling</i> , 2014 , 54, 355-61	6.1	10
Design, synthesis, and biological evaluation of simplified side chain hybrids of the potent actin binding polyketides rhizopodin and bistramide. <i>ChemMedChem</i> , 2015 , 10, 470-89	3.7	10
Transport of peptidomimetic thrombin inhibitors with a 3-amidino-phenylalanine structure: permeability and efflux mechanism in monolayers of a human intestinal cell line (Caco-2). <i>Pharmaceutical Research</i> , 2001 , 18, 1110-8	4.5	10
Structure of the Response Regulator NsrR from Streptococcus agalactiae, Which Is Involved in Lantibiotic Resistance. <i>PLoS ONE</i> , 2016 , 11, e0149903	3.7	10
Relevance of N-terminal residues for amyloid-Dinding to platelet integrin Dintegrin outside-in signaling and amyloid-Dibril formation. <i>Cellular Signalling</i> , 2018 , 50, 121-130	4.9	10
Fluorescent analogs of peptoid-based HDAC inhibitors: Synthesis, biological activity and cellular uptake kinetics. <i>Bioorganic and Medicinal Chemistry</i> , 2019 , 27, 115039	3.4	9
Scoring Functions for ProteinLigand Interactions 2012 , 237-263		9
Modular Solid-Phase Synthesis of Teroxazoles as a Class of ⊞elix Mimetics. <i>European Journal of Organic Chemistry</i> , 2012 , 2012, 3270-3277	3.2	9
Systematically Scrutinizing the Impact of Substitution Sites on Thermostability and Detergent Tolerance for Lipase A. <i>Journal of Chemical Information and Modeling</i> , 2020 , 60, 1568-1584	6.1	9
Suppression of RUNX1/ETO oncogenic activity by a small molecule inhibitor of tetramerization. <i>Haematologica</i> , 2017 , 102, e170-e174	6.6	8
Surprising Non-Additivity of Methyl Groups in Drug-Kinase Interaction. <i>ACS Chemical Biology</i> , 2019 , 14, 2585-2594	4.9	8
Structure and efflux mechanism of the yeast pleiotropic drug resistance transporter Pdr5. <i>Nature Communications</i> , 2021 , 12, 5254	17.4	8
	Conformations and lipophilicity profiles of some cyclic E(1+a)- and E(1-a)-linked oligogalactofuranosides. <i>Carbohydrate Research</i> , 1999, 321, 96-104 Interdependence of a mechanosensitive anion channel and glutamate receptors in distal wound signaling. <i>Science Advances</i> , 2021, 7, eabg4298 Novel 3.4-Dihydroisocoumarins Inhibit Human P-gp and BCRP in Multidrug Resistant Tumors and Demonstrate Substrate Inhibition of Yeast Pdr5. <i>Frontiers in Pharmacology</i> , 2019, 10, 400 VisualCNA: a GUI for interactive constraint network analysis and protein engineering for improving thermostability. <i>Bioinformatics</i> , 2015, 31, 2394-6 Binding modes of thioflavin T and Congo red to the fibril structure of amyloid-(1-42). <i>Chemical Communications</i> , 2020, 56, 7589-7592 Quality matters: extension of clusters of residues with good hydrophobic contacts stabilize (hyper)thermophilic proteins. <i>Journal of Chemical Information and Modeling</i> , 2014, 54, 355-61 Design, synthesis, and biological evaluation of simplified side chain hybrids of the potent actin binding polyketides rhizopodin and bistramide. <i>ChemMedChem</i> , 2015, 10, 470-89 Transport of peptidomimetic thrombin inhibitors with a 3-amidino-phenylalanine structure: permeability and efflux mechanism in monolayers of a human intestinal cell line (Caco-2). <i>Pharmaceutical Research</i> , 2001, 18, 1110-8 Structure of the Response Regulator NsrR from Streptococcus agalactiae, Which Is Involved in Lantibiotic Resistance. <i>PLoS ONE</i> , 2016, 11, e0149903 Relevance of N-terminal residues for amyloid-Binding to platelet integrin Bintegrin outside-in signaling and amyloid-libril formation. <i>Cellular Signalling</i> , 2018, 50, 121-130 Fluorescent analogs of peptoid-based HOAC inhibitors: Synthesis, biological activity and cellular uptake kinetics. <i>Bioorganic and Medicinal Chemistry</i> , 2019, 27, 115039 Scoring Functions for ProteinEigand Interactions 2012, 237-263 Modular Solid-Phase Synthesis of Teroxazoles as a Class of Bielix Mimetics. <i>European Journal of Organic Chemistry</i> , 2012, 2012, 3	Dikinase. Scientific Reports, 2017, 7, 45389 Conformations and lipophilicity profiles of some cyclic E(1-a)- and E(1-6)-linked oligogalactoriuranosides. Carbohydrate Research, 1999, 321, 96-104 Interdependence of a mechanosensitive anion channel and glutamate receptors in distal wound signaling. Science Advances, 2021, 7, eabg4298 Novel 3,4-Dihydroisocoumarins Inhibit Human P-gp and BCRP in Multidrug Resistant Tumors and Demonstrate Substrate Inhibition of Yeast Pdrs. Frontiers in Pharmacology, 2019, 10, 400 VisualCNA: a GUI for interactive constraint network analysis and protein engineering for improving thermostability. Bioinformatics, 2015, 31, 2394-6 Binding modes of thioflavin T and Congo red to the fibril structure of amyloid-E(1-42). Chemical Communications, 2020, 56, 7589-7592 Quality matters: extension of clusters of residues with good hydrophobic contacts stabilize (hyper)thermophilic proteins. Journal of Chemical Information and Modelling, 2014, 54, 355-61 Design, synthesis, and biological evaluation of simplified side chain hybrids of the potent actin binding polyketides rhizopodin and bistramide. ChemMedChem, 2015, 10, 470-89 37 Transport of peptidomimetic thrombin inhibitors with a 3-amidino-phenylalanine structure: permeability and efflux mechanism in monolayers of a human intestinal cell line (Caco-2). Pharmaceutical Research, 2001, 18, 1110-8 Structure of the Response Regulator NsrR from Streptococcus agalactiae, Which Is Involved in Lantibiotic Resistance. PLoS ONE, 2016, 11, e0149903 Relevance of N-terminal residues for amyloid-Binding to platelet integrin Bintegrin outside-in signaling and amyloid-fibril formation. Cellular Signalling, 2018, 50, 121-130 49 Fluorescent analogs of peptoid-based HDAC inhibitors: Synthesis, biological activity and cellular uptake kinetics. Bioorganic and Medicinal Chemistry, 2019, 27, 115039 Scoring Functions for Proteinligand Interactions 2012, 237-263 Modular Solid-Phase Synthesis of Teroxazoles as a Class of Belix Mimetics. European Journal of

85	AMBER-DYES in AMBER: Implementation of fluorophore and linker parameters into AmberTools. Journal of Chemical Physics, 2020 , 152, 221103	3.9	7
84	Identification of a Conserved Interface of Human Immunodeficiency Virus Type 1 and Feline Immunodeficiency Virus Vifs with Cullin 5. <i>Journal of Virology</i> , 2018 , 92,	6.6	7
83	The tetrahydroxanthone-dimer phomoxanthone A is a strong inducer of apoptosis in cisplatin-resistant solid cancer cells. <i>Bioorganic and Medicinal Chemistry</i> , 2019 , 27, 115044	3.4	7
82	Posttranslational Modification of the NADP-Malic Enzyme Involved in C Photosynthesis Modulates the Enzymatic Activity during the Day. <i>Plant Cell</i> , 2019 , 31, 2525-2539	11.6	7
81	Basal Histamine H Receptor Activation: Agonist Mimicry by the Diphenylalanine Motif. <i>Chemistry - A European Journal</i> , 2019 , 25, 14613-14624	4.8	7
80	Predicting transmembrane helix pair configurations with knowledge-based distance-dependent pair potentials. <i>Proteins: Structure, Function and Bioinformatics</i> , 2008 , 70, 984-99	4.2	7
79	Time-resolved structural analysis of an RNA-cleaving DNA catalyst <i>Nature</i> , 2021 ,	50.4	7
78	Loop 1 of APOBEC3C Regulates its Antiviral Activity against HIV-1. <i>Journal of Molecular Biology</i> , 2020 , 432, 6200-6227	6.5	7
77	The Puzzle of Metabolite Exchange and Identification of Putative Octotrico Peptide Repeat Expression Regulators in the Nascent Photosynthetic Organelles of. <i>Frontiers in Microbiology</i> , 2020 , 11, 607182	5.7	7
76	JAK2 p.G571S in B-cell precursor acute lymphoblastic leukemia: a synergizing germline susceptibility. <i>Leukemia</i> , 2019 , 33, 2331-2335	10.7	6
75	Structural and dynamic insights revealing how lipase binding domain MD1 of Pseudomonas aeruginosa foldase affects lipase activation. <i>Scientific Reports</i> , 2020 , 10, 3578	4.9	6
74	40 Years of Research on Polybrominated Diphenyl Ethers (PBDEs)-A Historical Overview and Newest Data of a Promising Anticancer Drug. <i>Molecules</i> , 2021 , 26,	4.8	6
73	Hydrophobic alkyl chains substituted to the 8-position of cyclic nucleotides enhance activation of CNG and HCN channels by an intricate enthalpy - entropy compensation. <i>Scientific Reports</i> , 2018 , 8, 1496	5 0 .9	6
72	Aqueous ionic liquids redistribute local enzyme stability via long-range perturbation pathways. <i>Computational and Structural Biotechnology Journal</i> , 2021 , 19, 4248-4264	6.8	6
71	Design, synthesis and biological evaluation of Epeptoid-capped HDAC inhibitors with anti-neuroblastoma and anti-glioblastoma activity. <i>MedChemComm</i> , 2019 , 10, 1109-1115	5	5
70	Novel Fluorescent Cyclic Nucleotide Derivatives to Study CNG and HCN Channel Function. <i>Biophysical Journal</i> , 2019 , 116, 2411-2422	2.9	5
69	Isoform-specific Inhibition of N-methyl-D-aspartate Receptors by Bile Salts. <i>Scientific Reports</i> , 2019 , 9, 10068	4.9	5
68	On the potential alternate binding change mechanism in a dimeric structure of Pyruvate Phosphate Dikinase. <i>Scientific Reports</i> , 2017 , 7, 8020	4.9	5

(2020-2015)

67	Complex long-distance effects of mutations that confer linezolid resistance in the large ribosomal subunit. <i>Nucleic Acids Research</i> , 2015 , 43, 7731-43	20.1	5	
66	Force field dependence of riboswitch dynamics. <i>Methods in Enzymology</i> , 2015 , 553, 163-91	1.7	5	
65	Pseudomonas aeruginosa esterase PA2949, a bacterial homolog of the human membrane esterase ABHD6: expression, purification and crystallization. <i>Acta Crystallographica Section F, Structural Biology Communications</i> , 2019 , 75, 270-277	1.1	5	
64	Redesigning Aldolase Stereoselectivity by Homologous Grafting. <i>PLoS ONE</i> , 2016 , 11, e0156525	3.7	5	
63	Semisynthetic Analogs of the Antibiotic Fidaxomicin-Design, Synthesis, and Biological Evaluation. <i>ACS Medicinal Chemistry Letters</i> , 2020 , 11, 2414-2420	4.3	5	
62	Glutamine synthetase as a central element in hepatic glutamine and ammonia metabolism: novel aspects. <i>Biological Chemistry</i> , 2021 , 402, 1063-1072	4.5	5	
61	TopSuite Web Server: A Meta-Suite for Deep-Learning-Based Protein Structure and Quality Prediction. <i>Journal of Chemical Information and Modeling</i> , 2021 , 61, 548-553	6.1	5	
60	Discovery of new acetylcholinesterase inhibitors for Alzheimer's disease: virtual screening and characterisation. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2021 , 36, 491-496	5.6	5	
59	Aminoxy Peptoids: A Unique Peptoid Backbone with a Preference for cis-Amide Bonds. <i>Chemistry - A European Journal</i> , 2017 , 23, 3699-3707	4.8	4	
58	Human RAD52 - a novel player in DNA repair in cancer and immunodeficiency. <i>Haematologica</i> , 2017 , 102, e69-e72	6.6	4	
57	Small-molecule inhibitors of nisin resistance protein NSR from the human pathogen Streptococcus agalactiae. <i>Bioorganic and Medicinal Chemistry</i> , 2019 , 27, 115079	3.4	4	
56	Phosphorylated tyrosine 93 of hepatitis C virus nonstructural protein 5A is essential for interaction with host c-Src and efficient viral replication. <i>Journal of Biological Chemistry</i> , 2019 , 294, 7388-7402	5.4	4	
55	Mechanism of Fully Reversible, pH-Sensitive Inhibition of Human Glutamine Synthetase by Tyrosine Nitration. <i>Journal of Chemical Theory and Computation</i> , 2020 , 16, 4694-4705	6.4	4	
54	Advances in molecular dynamics simulations and free-energy calculations relevant for drug design 2013 , 50-63		4	
53	Ligand-mediated and tertiary interactions cooperatively stabilize the P1 region in the guanine-sensing riboswitch. <i>PLoS ONE</i> , 2017 , 12, e0179271	3.7	4	
52	Flexibility analysis of biomacromolecules with application to computer-aided drug design. <i>Methods in Molecular Biology</i> , 2012 , 819, 75-91	1.4	4	
51	Characterization of the nucleotide-binding domain NsrF from the BceAB-type ABC-transporter NsrFP from the human pathogen Streptococcus agalactiae. <i>Scientific Reports</i> , 2020 , 10, 15208	4.9	4	
50	Evidence for functional selectivity in TUDC- and norUDCA-induced signal transduction via lintegrin towards choleresis. <i>Scientific Reports</i> , 2020 , 10, 5795	4.9	4	

49	A promiscuous ancestral enzyme's structure unveils protein variable regions of the highly diverse metallo-Elactamase family. <i>Communications Biology</i> , 2021 , 4, 132	6.7	4
48	The human platelet antigen-1b (Pro) variant of Hallosterically shifts the dynamic conformational equilibrium of this integrin toward the active state. <i>Journal of Biological Chemistry</i> , 2018 , 293, 4830-484	14 ^{5.4}	3
47	Xanthone, benzophenone and bianthrone derivatives from the hypersaline lake-derived fungus Aspergillus wentii. <i>Bioorganic and Medicinal Chemistry</i> , 2019 , 27, 115005	3.4	3
46	Design, synthesis, and conformational analysis of trispyrimidonamides as Helix mimetics. <i>Journal of Organic Chemistry</i> , 2014 , 79, 1582-93	4.2	3
45	Alignment-independent comparison of binding sites based on DrugScore potential fields encoded by 3D Zernike descriptors. <i>Journal of Chemical Information and Modeling</i> , 2012 , 52, 2339-47	6.1	3
44	Novel Recurrent Germline JAK2 G571S Variant in Childhood Acute B-Lymphoblastic Leukemia: A Double Hit One Pathway Scenario. <i>Blood</i> , 2018 , 132, 387-387	2.2	3
43	The Membrane-Integrated Steric Chaperone Lif Facilitates Active Site Opening of Pseudomonas aeruginosa Lipase A. <i>Journal of Computational Chemistry</i> , 2020 , 41, 500-512	3.5	3
42	Dimerization energetics of the G-protein coupled bile acid receptor TGR5 from all-atom simulations. <i>Journal of Computational Chemistry</i> , 2020 , 41, 874-884	3.5	3
41	Can constraint network analysis guide the identification phase of KnowVolution? A case study on improved thermostability of an endo-Eglucanase. <i>Computational and Structural Biotechnology Journal</i> , 2021 , 19, 743-751	6.8	3
40	Cumulative Submillisecond All-Atom Simulations of the Temperature-Induced Coil-to-Globule Transition of Poly(N-vinylcaprolactam) in Aqueous Solution. <i>Macromolecules</i> , 2020 , 53, 9793-9810	5.5	2
39	Fluorophore-Labeled Cyclic Nucleotides as Potent Agonists of Cyclic Nucleotide-Regulated Ion Channels. <i>ChemBioChem</i> , 2020 , 21, 2311-2320	3.8	2
38	Statics of Biomacromolecules 2011 , 281-299		2
37	Targeting spectrin redox switches to regulate the mechanoproperties of red blood cells. <i>Biological Chemistry</i> , 2021 , 402, 317-331	4.5	2
36	Critical assessment of structure-based approaches to improve protein resistance in aqueous ionic liquids by enzyme-wide saturation mutagenesis <i>Computational and Structural Biotechnology Journal</i> , 2022 , 20, 399-409	6.8	2
35	Bile Acids and TGR5 (Gpbar1) Signaling 2020 , 81-100		2
34	Cell Type-Dependent Escape of Capsid Inhibitors by Simian Immunodeficiency Virus SIVcpz. <i>Journal of Virology</i> , 2020 , 94,	6.6	2
33	Reactive Metabolites from Thiazole-Containing Drugs: Quantum Chemical Insights into Biotransformation and Toxicity. <i>Chemical Research in Toxicology</i> , 2021 , 34, 1503-1517	4	2
32	The many facets of bile acids in the physiology and pathophysiology of the human liver. <i>Biological Chemistry</i> , 2021 , 402, 1047-1062	4.5	2

31	Promiscuous Esterases Counterintuitively Are Less Flexible than Specific Ones. <i>Journal of Chemical Information and Modeling</i> , 2021 , 61, 2383-2395	6.1	2
30	Development of a Biosensor Platform for Phenolic Compounds Using a Transition Ligand Strategy. <i>ACS Synthetic Biology</i> , 2021 , 10, 2002-2014	5.7	2
29	Tertiary Interactions in the Unbound Guanine-Sensing Riboswitch Focus Functional Conformational Variability on the Binding Site. <i>Journal of Chemical Information and Modeling</i> , 2017 , 57, 2822-2832	6.1	1
28	Pyrazolidine-3,5-dione-based inhibitors of phosphoenolpyruvate carboxylase as a new class of potential C plant herbicides. <i>FEBS Letters</i> , 2017 , 591, 3369-3377	3.8	1
27	Structural features of FAP174, a MYCBP-1 orthologue from Chlamydomonas reinhardtii, revealed by computational and experimental analyses. <i>RSC Advances</i> , 2017 , 7, 51391-51402	3.7	1
26	From Hansch-Fujita Analysis to AFMoC: A Road to Structure-Based QSAR. <i>Molecular Informatics</i> , 2012 , 31, 698-704	3.8	1
25	Protein-Protein-Interaktionen webbasiert analysieren. <i>Nachrichten Aus Der Chemie</i> , 2011 , 59, 44-45	0.1	1
24	A phospholipase B from Pseudomonas aeruginosa with activity towards endogenous phospholipids affects biofilm assembly <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2022 , 1867, 159101	5	1
23	Foamy Viruses, Bet, and APOBEC3 Restriction. <i>Viruses</i> , 2021 , 13,	6.2	1
22	Allosteric signaling in C-linker and cyclic nucleotide-binding domain of HCN2 channels. <i>Biophysical Journal</i> , 2021 , 120, 950-963	2.9	1
21	Respiratory and C4-photosynthetic NAD-malic enzyme coexist in bundle sheath cells mitochondria and evolved via association of differentially adapted subunits		1
20	Novel intracellular phospholipase B from Pseudomonas aeruginosa with activity towards endogenous phospholipids affects biofilm assembly		1
19	TopDomain: Exhaustive Protein Domain Boundary Metaprediction Combining Multisource Information and Deep Learning. <i>Journal of Chemical Theory and Computation</i> , 2021 , 17, 4599-4613	6.4	1
18	Evidence for a bacterial Lands cycle phospholipase A: Structural and mechanistic insights into membrane phospholipid remodeling		1
17	Evidence for a credit-card-swipe mechanism in the human PC floppase ABCB4. <i>Structure</i> , 2021 , 29, 114	44- 9 . 1 55	.еБ
16	Thermodynamic profile of mutual subunit control in a heteromeric receptor. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	1
15	Structural, mechanistic and physiological insights into phospholipase A-mediated membrane phospholipid degradation in <i>ELife</i> , 2022 , 11,	8.9	1
14	Substrate Access Mechanism in a Novel Membrane-Bound Phospholipase A of Concordant with Specificity and Regioselectivity. <i>Journal of Chemical Information and Modeling</i> , 2021 , 61, 5626-5643	6.1	O

13	TopProperty: Robust Metaprediction of Transmembrane and Globular Protein Features Using Deep Neural Networks. <i>Journal of Chemical Theory and Computation</i> , 2021 , 17, 7281-7289	6.4	О
12	Liver cell hydration and integrin signaling. <i>Biological Chemistry</i> , 2021 , 402, 1033-1045	4.5	O
11	F/G Region Rigidity is Inversely Correlated to Substrate Promiscuity of Human CYP Isoforms Involved in Metabolism. <i>Journal of Chemical Information and Modeling</i> , 2021 , 61, 4023-4030	6.1	0
10	Mapping the helix arrangement of the reconstituted ETR1 ethylene receptor transmembrane domain by EPR spectroscopy <i>RSC Advances</i> , 2022 , 12, 7352-7356	3.7	O
9	Molecular Modeling and Simulations of DNA and RNA: DNAzyme as a Model System <i>Methods in Molecular Biology</i> , 2022 , 2439, 153-170	1.4	0
8	Toolkit for Multi-Conformation Biomolecular Structure Determination by High-Precision FRET and Molecular Simulations. <i>Biophysical Journal</i> , 2015 , 108, 163a-164a	2.9	
7	TGR5 (GPBAR1) in the Liver 2020 , 286-298		
6	Proteinstabilit webbasiert analysieren. <i>Nachrichten Aus Der Chemie</i> , 2013 , 61, 909-911	0.1	
5	Cover Image, Volume 7, Issue 4. <i>Wiley Interdisciplinary Reviews: Computational Molecular Science</i> , 2017 , 7, e1324	7.9	
4	Protein Flexibility in In Silico Screening 2010 , 867-887		
3	Therapeutic Targeting of HSP90 in AML and ALL. <i>Blood</i> , 2018 , 132, 4680-4680	2.2	
2	-modified cAMP derivatives that activate protein kinase A also act as full agonists of murine HCN2 channels. <i>Journal of Biological Chemistry</i> , 2019 , 294, 17978-17987	5.4	
1	Functional and structural characterization of interactions between opposite subunits in HCN pacemaker channels <i>Communications Biology</i> , 2022 , 5, 430	6.7	