

Holger Gohlke

List of Publications by Year in descending order

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Version: 2024-02-01

241
papers

23,558
citations

43973

48
h-index

8599

146
g-index

263
all docs

263
docs citations

263
times ranked

24056
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | The Amber biomolecular simulation programs. <i>Journal of Computational Chemistry</i> , 2005, 26, 1668-1688. | 1.5 | 7,742 |
| 2 | <i>MM-PBSA.py</i> : An Efficient Program for End-State Free Energy Calculations. <i>Journal of Chemical Theory and Computation</i> , 2012, 8, 3314-3321. | 2.3 | 2,891 |
| 3 | 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. | 2.0 | 1,079 |
| 4 | Knowledge-based scoring function to predict protein-ligand interactions. <i>Journal of Molecular Biology</i> , 2000, 295, 337-356. | 2.0 | 1,009 |
| 5 | Free Energy Calculations by the Molecular Mechanics Poisson-Boltzmann Surface Area Method. <i>Molecular Informatics</i> , 2012, 31, 114-122. | 1.4 | 768 |
| 6 | Converging free energy estimates: MM-PB(GB)SA studies on the protein-protein complex Ras-Raf. <i>Journal of Computational Chemistry</i> , 2004, 25, 238-250. | 1.5 | 750 |
| 7 | 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, 2644-2676. | 7.2 | 729 |
| 8 | Assessing Scoring Functions for Protein-Ligand Interactions. <i>Journal of Medicinal Chemistry</i> , 2004, 47, 3032-3047. | 2.9 | 464 |
| 9 | A toolkit and benchmark study for FRET-restrained high-precision structural modeling. <i>Nature Methods</i> , 2012, 9, 1218-1225. | 9.0 | 400 |
| 10 | DrugScoreCSD 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, 6296-6303. | 2.9 | 314 |
| 11 | Target Flexibility: An Emerging Consideration in Drug Discovery and Design. <i>Journal of Medicinal Chemistry</i> , 2008, 51, 6237-6255. | 2.9 | 280 |
| 12 | Statistical potentials and scoring functions applied to protein-ligand binding. <i>Current Opinion in Structural Biology</i> , 2001, 11, 231-235. | 2.6 | 186 |
| 13 | 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, 2607-2625. | 1.2 | 174 |
| 14 | A Novel Polyester Hydrolase From the Marine Bacterium <i>Pseudomonas aestusnigri</i> : Structural and Functional Insights. <i>Frontiers in Microbiology</i> , 2020, 11, 114. | 1.5 | 172 |
| 15 | 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. | 2.6 | 156 |
| 16 | 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, 427-436. | 2.9 | 152 |
| 17 | DrugScorePPI webserver: fast and accurate in silico alanine scanning for scoring protein-protein interactions. <i>Nucleic Acids Research</i> , 2010, 38, W480-W486. | 6.5 | 146 |
| 18 | Protein rigidity and thermophilic adaptation. <i>Proteins: Structure, Function and Bioinformatics</i> , 2011, 79, 1089-1108. | 1.5 | 141 |

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|----|---|-----|-----------|
| 19 | 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, 4153-4170. | 2.9 | 139 |
| 20 | 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, 3331-3344. | 2.3 | 139 |
| 21 | A Natural Coarse Graining for Simulating Large Biomolecular Motion. <i>Biophysical Journal</i> , 2006, 91, 2115-2120. | 0.2 | 129 |
| 22 | Ligand-supported Homology Modelling of Protein Binding-sites using Knowledge-based Potentials. <i>Journal of Molecular Biology</i> , 2003, 334, 327-345. | 2.0 | 126 |
| 23 | 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. | 2.5 | 121 |
| 24 | 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, 120-133. | 2.5 | 120 |
| 25 | 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-W348. | 6.5 | 118 |
| 26 | 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, 322-337. | 1.5 | 106 |
| 27 | Structure-based computational analysis of protein binding sites for function and druggability prediction. <i>Journal of Biotechnology</i> , 2012, 159, 123-134. | 1.9 | 100 |
| 28 | DrugScore ^{RNA} Knowledge-Based Scoring Function To Predict RNA-Ligand Interactions. <i>Journal of Chemical Information and Modeling</i> , 2007, 47, 1868-1876. | 2.5 | 98 |
| 29 | 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. | 1.8 | 97 |
| 30 | Docking into Knowledge-Based Potential Fields: A Comparative Evaluation of DrugScore. <i>Journal of Medicinal Chemistry</i> , 2002, 45, 1967-1970. | 2.9 | 96 |
| 31 | Title is missing!. <i>Journal of Computer - Aided Molecular Design</i> , 2000, 20, 115-144. | 1.0 | 92 |
| 32 | Platelets contribute to amyloid- β aggregation in cerebral vessels through integrin α _{IIb} β ₃ -induced outside-in signaling and clusterin release. <i>Science Signaling</i> , 2016, 9, ra52. | 1.6 | 89 |
| 33 | Multiscale modeling of macromolecular conformational changes combining concepts from rigidity and elastic network theory. <i>Proteins: Structure, Function and Bioinformatics</i> , 2006, 63, 1038-1051. | 1.5 | 88 |
| 34 | FEW: A workflow tool for free energy calculations of ligand binding. <i>Journal of Computational Chemistry</i> , 2013, 34, 965-973. | 1.5 | 86 |
| 35 | Molecular recognition of RNA: challenges for modelling interactions and plasticity. <i>Journal of Molecular Recognition</i> , 2010, 23, 220-231. | 1.1 | 85 |
| 36 | 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, 1007-1015. | 2.5 | 81 |

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|----|---|------|-----------|
| 37 | On the Effects of Reactive Oxygen Species and Nitric Oxide on Red Blood Cell Deformability. <i>Frontiers in Physiology</i> , 2018, 9, 332. | 1.3 | 80 |
| 38 | 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-W316. | 6.5 | 79 |
| 39 | Resolving dynamics and function of transient states in single enzyme molecules. <i>Nature Communications</i> , 2020, 11, 1231. | 5.8 | 71 |
| 40 | $\hat{I}^{\pm 5}$ \hat{I}^{21} -integrins are sensors for tauroursodeoxycholic acid in hepatocytes. <i>Hepatology</i> , 2013, 57, 1117-1129. | 3.6 | 67 |
| 41 | Statics of the Ribosomal Exit Tunnel: Implications for Cotranslational Peptide Folding, Elongation Regulation, and Antibiotics Binding. <i>Journal of Molecular Biology</i> , 2009, 387, 502-517. | 2.0 | 66 |
| 42 | 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. | 0.6 | 66 |
| 43 | Time-resolved structural analysis of an RNA-cleaving DNA catalyst. <i>Nature</i> , 2022, 601, 144-149. | 13.7 | 65 |
| 44 | 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, 1064-1072. | 2.9 | 64 |
| 45 | Structural Rigidity and Protein Thermostability in Variants of Lipase A from <i>Bacillus subtilis</i> . <i>PLoS ONE</i> , 2015, 10, e0130289. | 1.1 | 64 |
| 46 | 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, 1604-1622. | 2.5 | 62 |
| 47 | Modulating Protein-Protein Interactions: From Structural Determinants of Binding to Druggability Prediction to Application. <i>Current Pharmaceutical Design</i> , 2012, 18, 4630-4647. | 0.9 | 54 |
| 48 | Effects of novel HDAC inhibitors on urothelial carcinoma cells. <i>Clinical Epigenetics</i> , 2018, 10, 100. | 1.8 | 51 |
| 49 | Structure and efflux mechanism of the yeast pleiotropic drug resistance transporter Pdr5. <i>Nature Communications</i> , 2021, 12, 5254. | 5.8 | 51 |
| 50 | Global and local indices for characterizing biomolecular flexibility and rigidity. <i>Journal of Computational Chemistry</i> , 2013, 34, 220-233. | 1.5 | 50 |
| 51 | Structure of <i>Aquifex aeolicus</i> 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, 13824-13832. | 1.6 | 48 |
| 52 | Trading off stability against activity in extremophilic aldolases. <i>Scientific Reports</i> , 2016, 6, 17908. | 1.6 | 48 |
| 53 | Converging a Knowledge-Based Scoring Function: DrugScore ²⁰¹⁸ . <i>Journal of Chemical Information and Modeling</i> , 2019, 59, 509-521. | 2.5 | 48 |
| 54 | Application of Rigidity Theory to the Thermostabilization of Lipase A from <i>Bacillus subtilis</i> . <i>PLoS Computational Biology</i> , 2016, 12, e1004754. | 1.5 | 48 |

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|----|---|-----|-----------|
| 55 | 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. | 2.5 | 46 |
| 56 | Interdependence of a mechanosensitive anion channel and glutamate receptors in distal wound signaling. <i>Science Advances</i> , 2021, 7, eabg4298. | 4.7 | 45 |
| 57 | 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, 3341-3352. | 1.5 | 44 |
| 58 | Thermostabilizing mutations preferentially occur at structural weak spots with a high mutation ratio. <i>Journal of Biotechnology</i> , 2012, 159, 135-144. | 1.9 | 44 |
| 59 | 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. | 1.4 | 44 |
| 60 | Analyzing the Flexibility of RNA Structures by Constraint Counting. <i>Biophysical Journal</i> , 2008, 94, 4202-4219. | 0.2 | 43 |
| 61 | 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. | 2.0 | 43 |
| 62 | Structural basis of lantibiotic recognition by the nisin resistance protein from <i>Streptococcus agalactiae</i> . <i>Scientific Reports</i> , 2016, 6, 18679. | 1.6 | 42 |
| 63 | Double-strand DNA end-binding and sliding of the toroidal CRISPR-associated protein Csn2. <i>Nucleic Acids Research</i> , 2013, 41, 6347-6359. | 6.5 | 41 |
| 64 | 3D QSAR Analyses-Guided Rational Design of Novel Ligands for the $(\pm 4)2(\pm 2)3$ Nicotinic Acetylcholine Receptor. <i>Journal of Medicinal Chemistry</i> , 2003, 46, 2031-2048. | 2.9 | 40 |
| 65 | Determinants of the Unexpected Stability of RNA Fluorobenzene Self Pairs. <i>ChemBioChem</i> , 2008, 9, 2619-2622. | 1.3 | 40 |
| 66 | Dimer-tetramer transition controls RUNX1/ETO leukemogenic activity. <i>Blood</i> , 2010, 116, 603-613. | 0.6 | 40 |
| 67 | 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, 1953-1967. | 2.3 | 40 |
| 68 | Pocket-Space Maps To Identify Novel Binding-Site Conformations in Proteins. <i>Journal of Chemical Information and Modeling</i> , 2011, 51, 2666-2679. | 2.5 | 39 |
| 69 | Partially inserted nascent chain unzips the lateral gate of the Sec translocon. <i>EMBO Reports</i> , 2019, 20, e48191. | 2.0 | 39 |
| 70 | Automated and optimally FRET-assisted structural modeling. <i>Nature Communications</i> , 2020, 11, 5394. | 5.8 | 39 |
| 71 | Systematic analysis of ATG13 domain requirements for autophagy induction. <i>Autophagy</i> , 2018, 14, 743-763. | 4.3 | 38 |
| 72 | Binding modes of thioflavin T and Congo red to the fibril structure of amyloid- β (1-42). <i>Chemical Communications</i> , 2020, 56, 7589-7592. | 2.2 | 38 |

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|----|---|-----|-----------|
| 73 | Steering Protein~Ligand Docking with Quantitative NMR Chemical Shift Perturbations. <i>Journal of Chemical Information and Modeling</i> , 2009, 49, 2260-2271. | 2.5 | 37 |
| 74 | Alkoxyurea-Based Histone Deacetylase Inhibitors Increase Cisplatin Potency in Chemoresistant Cancer Cell Lines. <i>Journal of Medicinal Chemistry</i> , 2017, 60, 5334-5348. | 2.9 | 37 |
| 75 | Co-culture of the fungus <i>Fusarium tricinctum</i> with <i>Streptomyces lividans</i> induces production of cryptic naphthoquinone dimers. <i>RSC Advances</i> , 2019, 9, 1491-1500. | 1.7 | 37 |
| 76 | 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, 3133-3146. | 6.5 | 36 |
| 77 | Biallelic mutation of human <i>SLC6A6</i> encoding the taurine transporter TAUT is linked to early retinal degeneration. <i>FASEB Journal</i> , 2019, 33, 11507-11527. | 0.2 | 36 |
| 78 | Quantitative assessment of the determinant structural differences between redox-active and inactive glutaredoxins. <i>Nature Communications</i> , 2020, 11, 1725. | 5.8 | 34 |
| 79 | Starting Structure Dependence of NMR Order Parameters Derived from MD Simulations: Implications for Judging Force-Field Quality. <i>Biophysical Journal</i> , 2008, 95, L04-L06. | 0.2 | 33 |
| 80 | Structural Model of the ETR1 Ethylene Receptor Transmembrane Sensor Domain. <i>Scientific Reports</i> , 2019, 9, 8869. | 1.6 | 33 |
| 81 | 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. | 2.3 | 33 |
| 82 | 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, 5493-5506. | 2.9 | 32 |
| 83 | Elastic Potential Grids: Accurate and Efficient Representation of Intermolecular Interactions for Fully Flexible Docking. <i>ChemMedChem</i> , 2009, 4, 1264-1268. | 1.6 | 31 |
| 84 | Ensemble- and Rigidity Theory-Based Perturbation Approach To Analyze Dynamic Allostery. <i>Journal of Chemical Theory and Computation</i> , 2017, 13, 6343-6357. | 2.3 | 31 |
| 85 | Improving Binding Mode Predictions by Docking into Protein-Specifically Adapted Potential Fields. <i>Journal of Medicinal Chemistry</i> , 2005, 48, 5466-5479. | 2.9 | 30 |
| 86 | 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. | 2.3 | 30 |
| 87 | 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, 2807-2811. | 2.5 | 29 |
| 88 | Binding Region of Alanopine Dehydrogenase Predicted by Unbiased Molecular Dynamics Simulations of Ligand Diffusion. <i>Journal of Chemical Information and Modeling</i> , 2013, 53, 2493-2498. | 2.5 | 29 |
| 89 | 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. | 1.7 | 29 |
| 90 | Rigidity theory for biomolecules: concepts, software, and applications. <i>Wiley Interdisciplinary Reviews: Computational Molecular Science</i> , 2017, 7, e1311. | 6.2 | 29 |

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|-----|---|-----|-----------|
| 91 | 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, 1489-1501. | 2.5 | 28 |
| 92 | Molecular Mechanisms of Glutamine Synthetase Mutations that Lead to Clinically Relevant Pathologies. <i>PLoS Computational Biology</i> , 2016, 12, e1004693. | 1.5 | 28 |
| 93 | Constraint counting on RNA structures: Linking flexibility and function. <i>Methods</i> , 2009, 49, 181-188. | 1.9 | 27 |
| 94 | 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, 57-72. | 2.6 | 27 |
| 95 | Recognition motif and mechanism of ripening inhibitory peptides in plant hormone receptor ETR1. <i>Scientific Reports</i> , 2018, 8, 3890. | 1.6 | 27 |
| 96 | 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. | 2.3 | 27 |
| 97 | Synthesis of Peptoid-Based Class I-Selective Histone Deacetylase Inhibitors with Chemosensitizing Properties. <i>Journal of Medicinal Chemistry</i> , 2019, 62, 11260-11279. | 2.9 | 27 |
| 98 | 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. | 1.1 | 27 |
| 99 | EDTA aggregates induce SYPRO orange-based fluorescence in thermal shift assay. <i>PLoS ONE</i> , 2017, 12, e0177024. | 1.1 | 27 |
| 100 | Chlorflavonin Targets Acetohydroxyacid Synthase Catalytic Subunit IlvB1 for Synergistic Killing of <i>Mycobacterium tuberculosis</i> . <i>ACS Infectious Diseases</i> , 2018, 4, 123-134. | 1.8 | 26 |
| 101 | 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. | 2.0 | 25 |
| 102 | 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, 862-876. | 2.5 | 25 |
| 103 | Target Flexibility in RNA-Ligand Docking Modeled by Elastic Potential Grids. <i>ACS Medicinal Chemistry Letters</i> , 2011, 2, 489-493. | 1.3 | 24 |
| 104 | The crystal structure of the CRISPR-associated protein Csn2 from <i>Streptococcus agalactiae</i> . <i>Journal of Structural Biology</i> , 2012, 178, 350-362. | 1.3 | 24 |
| 105 | Interaction of Ochratoxin A and Its Thermal Degradation Product 2 α -Ochratoxin A with Human Serum Albumin. <i>Toxins</i> , 2018, 10, 256. | 1.5 | 24 |
| 106 | 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. | 1.6 | 23 |
| 107 | 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, 2197-2202. | 2.5 | 22 |
| 108 | Structure of the Response Regulator NsrR from <i>Streptococcus agalactiae</i> , Which Is Involved in Lantibiotic Resistance. <i>PLoS ONE</i> , 2016, 11, e0149903. | 1.1 | 22 |

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|-----|---|-----|-----------|
| 109 | Efficient and Robust Analysis of Biomacromolecular Flexibility Using Ensembles of Network Topologies Based on Fuzzy Noncovalent Constraints. <i>Structure</i> , 2013, 21, 1725-1734. | 1.6 | 21 |
| 110 | Determinants of FIV and HIV Vif sensitivity of feline APOBEC3 restriction factors. <i>Retrovirology</i> , 2016, 13, 46. | 0.9 | 21 |
| 111 | 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, 110-126. | 2.5 | 21 |
| 112 | Design and synthesis of novel Y-shaped barbituric acid derivatives as PPAR β activators. <i>European Journal of Medicinal Chemistry</i> , 2016, 108, 423-435. | 2.6 | 21 |
| 113 | Systematically Scrutinizing the Impact of Substitution Sites on Thermostability and Detergent Tolerance for <i>Bacillus subtilis</i> Lipase A. <i>Journal of Chemical Information and Modeling</i> , 2020, 60, 1568-1584. | 2.5 | 21 |
| 114 | Discovery of new acetylcholinesterase inhibitors for Alzheimer's disease: virtual screening and <i>in vitro</i> characterisation. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2021, 36, 491-496. | 2.5 | 21 |
| 115 | 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. | 1.1 | 20 |
| 116 | Posttranslational Modification of the NADP-Malic Enzyme Involved in C ₄ Photosynthesis Modulates the Enzymatic Activity during the Day. <i>Plant Cell</i> , 2019, 31, 2525-2539. | 3.1 | 20 |
| 117 | FK506 Resistance of <i>Saccharomyces cerevisiae</i> Pdr5 and <i>Candida albicans</i> Cdr1 Involves Mutations in the Transmembrane Domains and Extracellular Loops. <i>Antimicrobial Agents and Chemotherapy</i> , 2019, 63, . | 1.4 | 20 |
| 118 | Glutamine synthetase as a central element in hepatic glutamine and ammonia metabolism: novel aspects. <i>Biological Chemistry</i> , 2021, 402, 1063-1072. | 1.2 | 20 |
| 119 | Nutrient exchange in arbuscular mycorrhizal symbiosis from a thermodynamic point of view. <i>New Phytologist</i> , 2019, 222, 1043-1053. | 3.5 | 19 |
| 120 | DrugScorePPI Knowledge-Based Potentials Used as Scoring and Objective Function in Protein-Protein Docking. <i>PLoS ONE</i> , 2014, 9, e89466. | 1.1 | 19 |
| 121 | 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, 2265-2272. | 2.5 | 18 |
| 122 | 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, 1043-1055. | 1.1 | 18 |
| 123 | On the contributing role of the transmembrane domain for subunit-specific sensitivity of integrin activation. <i>Scientific Reports</i> , 2018, 8, 5733. | 1.6 | 18 |
| 124 | Fluorescent analogs of peptoid-based HDAC inhibitors: Synthesis, biological activity and cellular uptake kinetics. <i>Bioorganic and Medicinal Chemistry</i> , 2019, 27, 115039. | 1.4 | 18 |
| 125 | 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, 995. | 1.7 | 18 |
| 126 | Influence of the solvent representation on vibrational entropy calculations: Generalized born versus distance-dependent dielectric model. <i>Journal of Computational Chemistry</i> , 2012, 33, 1004-1013. | 1.5 | 17 |

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|-----|--|-----|-----------|
| 127 | Rigidity Theory-Based Approximation of Vibrational Entropy Changes upon Binding to Biomolecules. <i>Journal of Chemical Theory and Computation</i> , 2017, 13, 1495-1502. | 2.3 | 17 |
| 128 | Contribution of single amino acid and codon substitutions to the production and secretion of a lipase by <i>Bacillus subtilis</i> . <i>Microbial Cell Factories</i> , 2017, 16, 160. | 1.9 | 17 |
| 129 | Relevance of N-terminal residues for amyloid- β binding to platelet integrin α IIb β 3, integrin outside-in signaling and amyloid- β fibril formation. <i>Cellular Signalling</i> , 2018, 50, 121-130. | 1.7 | 17 |
| 130 | AMBER-DYES in AMBER: Implementation of fluorophore and linker parameters into AmberTools. <i>Journal of Chemical Physics</i> , 2020, 152, 221103. | 1.2 | 17 |
| 131 | α -Aminoxy Oligopeptides: Synthesis, Secondary Structure, and Cytotoxicity of a New Class of Anticancer Foldamers. <i>Chemistry - A European Journal</i> , 2016, 22, 17600-17611. | 1.7 | 16 |
| 132 | Structural intermediates and directionality of the swiveling motion of Pyruvate Phosphate Dikinase. <i>Scientific Reports</i> , 2017, 7, 45389. | 1.6 | 16 |
| 133 | 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. | 1.6 | 16 |
| 134 | A promiscuous ancestral enzyme's structure unveils protein variable regions of the highly diverse metallo- β -lactamase family. <i>Communications Biology</i> , 2021, 4, 132. | 2.0 | 16 |
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