

Alexandre Bonvin

List of Publications by Year in descending order

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Version: 2024-02-01

281
papers

25,590
citations

11608

70
h-index

9073

144
g-index

328
all docs

328
docs citations

328
times ranked

24305
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Using machine-learning-driven approaches to boost hot-spot's knowledge. Wiley Interdisciplinary Reviews: Computational Molecular Science, 2022, 12, . | 6.2 | 2 |
| 2 | Molecular Insights Into Binding and Activation of the Human KCNQ2 Channel by Retigabine. Frontiers in Molecular Biosciences, 2022, 9, 839249. | 1.6 | 1 |
| 3 | Interface refinement of low- to medium-resolution Cryo-EM complexes using HADDOCK2.4. Structure, 2022, 30, 476-484.e3. | 1.6 | 5 |
| 4 | Cyclization and Docking Protocol for Cyclic Peptide-Protein Modeling Using HADDOCK2.4. Journal of Chemical Theory and Computation, 2022, 18, 4027-4040. | 2.3 | 12 |
| 5 | Pathogen-sugar interactions revealed by universal saturation transfer analysis. Science, 2022, 377, . | 6.0 | 24 |
| 6 | <sc>PDBtools</sc> web: A user-friendly interface for the manipulation of <sc>PDB</sc> files. Proteins: Structure, Function and Bioinformatics, 2021, 89, 330-335. | 1.5 | 15 |
| 7 | Integrating quantitative proteomics with accurate genome profiling of transcription factors by greenCUT&RUN. Nucleic Acids Research, 2021, 49, e49. | 6.5 | 14 |
| 8 | Characterization of nucleosome sediments for protein interaction studies by solid-state NMR spectroscopy. Magnetic Resonance, 2021, 2, 187-202. | 0.8 | 9 |
| 9 | 50 years of PDB: a catalyst in structural biology. Nature Methods, 2021, 18, 448-449. | 9.0 | 12 |
| 10 | Structural Biology in the Clouds: The WeNMR-EOSC Ecosystem. Frontiers in Molecular Biosciences, 2021, 8, 729513. | 1.6 | 308 |
| 11 | Shape-Restrained Modeling of Protein-Small-Molecule Complexes with High Ambiguity Driven DOCKing. Journal of Chemical Information and Modeling, 2021, 61, 4807-4818. | 2.5 | 11 |
| 12 | Native or Non-Native Protein-Protein Docking Models? Molecular Dynamics to the Rescue. Journal of Chemical Theory and Computation, 2021, 17, 5944-5954. | 2.3 | 21 |
| 13 | Prediction of protein assemblies, the next frontier: The <sc>CASP14-CAPRI</sc> experiment. Proteins: Structure, Function and Bioinformatics, 2021, 89, 1800-1823. | 1.5 | 73 |
| 14 | Emergence and spread of SARS-CoV-2 lineage B.1.620 with variant of concern-like mutations and deletions. Nature Communications, 2021, 12, 5769. | 5.8 | 51 |
| 15 | Information-driven modeling of biomolecular complexes. Current Opinion in Structural Biology, 2021, 70, 70-77. | 2.6 | 11 |
| 16 | MENSAdb: a thorough structural analysis of membrane protein dimers. Database: the Journal of Biological Databases and Curation, 2021, 2021, . | 1.4 | 2 |
| 17 | Molecular Dynamics Simulations in Drug Discovery and Pharmaceutical Development. Processes, 2021, 9, 71. | 1.3 | 162 |
| 18 | DeepRank: a deep learning framework for data mining 3D protein-protein interfaces. Nature Communications, 2021, 12, 7068. | 5.8 | 56 |

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| 19 | iScore: a novel graph kernel-based function for scoring protein-protein docking models. <i>Bioinformatics</i> , 2020, 36, 112-121. | 1.8 | 62 |
| 20 | Computational approaches to therapeutic antibody design: established methods and emerging trends. <i>Briefings in Bioinformatics</i> , 2020, 21, 1549-1567. | 3.2 | 126 |
| 21 | LightDock goes information-driven. <i>Bioinformatics</i> , 2020, 36, 950-952. | 1.8 | 30 |
| 22 | Pre- and post-docking sampling of conformational changes using ClustENM and HADDOCK for protein-protein and protein-DNA systems. <i>Proteins: Structure, Function and Bioinformatics</i> , 2020, 88, 292-306. | 1.5 | 32 |
| 23 | The structural details of the interaction of single-stranded DNA binding protein hSSB2 (NABP1/OBFC2A) with UV-damaged DNA. <i>Proteins: Structure, Function and Bioinformatics</i> , 2020, 88, 319-326. | 1.5 | 10 |
| 24 | Coupling enhanced sampling of the apo-receptor with template-based ligand conformers selection: performance in pose prediction in the D3R Grand Challenge 4. <i>Journal of Computer-Aided Molecular Design</i> , 2020, 34, 149-162. | 1.3 | 11 |
| 25 | An overview of data-driven HADDOCK strategies in CAPRI rounds 38-45. <i>Proteins: Structure, Function and Bioinformatics</i> , 2020, 88, 1029-1036. | 1.5 | 11 |
| 26 | Modeling Antibody-Antigen Complexes by Information-Driven Docking. <i>Structure</i> , 2020, 28, 119-129.e2. | 1.6 | 51 |
| 27 | Integrative Modelling of Biomolecular Complexes. <i>Journal of Molecular Biology</i> , 2020, 432, 2861-2881. | 2.0 | 70 |
| 28 | Inhibition of the integrated stress response by viral proteins that block p-eIF2-eIF2B association. <i>Nature Microbiology</i> , 2020, 5, 1361-1373. | 5.9 | 39 |
| 29 | Editorial: Multiscale Modeling From Macromolecules to Cell: Opportunities and Challenges of Biomolecular Simulations. <i>Frontiers in Molecular Biosciences</i> , 2020, 7, 194. | 1.6 | 8 |
| 30 | Integrative modeling of membrane-associated protein assemblies. <i>Nature Communications</i> , 2020, 11, 6210. | 5.8 | 31 |
| 31 | Control over the fibrillization yield by varying the oligomeric nucleation propensities of self-assembling peptides. <i>Communications Chemistry</i> , 2020, 3, . | 2.0 | 7 |
| 32 | proABC-2: PRediction of AntiBody contacts v2 and its application to information-driven docking. <i>Bioinformatics</i> , 2020, 36, 5107-5108. | 1.8 | 27 |
| 33 | Coarse-grained (hybrid) integrative modeling of biomolecular interactions. <i>Computational and Structural Biotechnology Journal</i> , 2020, 18, 1182-1190. | 1.9 | 23 |
| 34 | Mode of action of teixobactins in cellular membranes. <i>Nature Communications</i> , 2020, 11, 2848. | 5.8 | 57 |
| 35 | Biological vs. Crystallographic Protein Interfaces: An Overview of Computational Approaches for Their Classification. <i>Crystals</i> , 2020, 10, 114. | 1.0 | 15 |
| 36 | EDES: A Protocol to Generate Holo-Like and Druggable Protein Conformations Starting from the APO Structure. <i>Biophysical Journal</i> , 2020, 118, 44a. | 0.2 | 0 |

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| 37 | Proteinâ€“Protein Modeling Using Cryo-EM Restraints. <i>Methods in Molecular Biology</i> , 2020, 2112, 145-162. | 0.4 | 3 |
| 38 | iScore: An MPI supported software for ranking proteinâ€“protein docking models based on a random walk graph kernel and support vector machines. <i>SoftwareX</i> , 2020, 11, 100462. | 1.2 | 5 |
| 39 | A community proposal to integrate structural bioinformatics activities in ELIXIR (3D-Bioinfo) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T | 0.8 | 12 |
| 40 | Understanding Docking Complexes of Macromolecules Using HADDOCK: The Synergy between Experimental Data and Computations. <i>Bio-protocol</i> , 2020, 10, e3793. | 0.2 | 6 |
| 41 | A click-flipped enzyme substrate boosts the performance of the diagnostic screening for Hunter syndrome. <i>Chemical Science</i> , 2020, 11, 12671-12676. | 3.7 | 1 |
| 42 | Blind prediction of homoâ€“and heteroâ€“protein complexes: The CASP13â€“CAPRI experiment. <i>Proteins: Structure, Function and Bioinformatics</i> , 2019, 87, 1200-1221. | 1.5 | 99 |
| 43 | MARTINI-Based Protein-DNA Coarse-Grained HADDOCKing. <i>Frontiers in Molecular Biosciences</i> , 2019, 6, 102. | 1.6 | 28 |
| 44 | Sharing Data from Molecular Simulations. <i>Journal of Chemical Information and Modeling</i> , 2019, 59, 4093-4099. | 2.5 | 26 |
| 45 | Less Is More: Coarse-Grained Integrative Modeling of Large Biomolecular Assemblies with HADDOCK. <i>Journal of Chemical Theory and Computation</i> , 2019, 15, 6358-6367. | 2.3 | 43 |
| 46 | Folding Then Binding vs Folding Through Binding in Macrocyclic Peptide Inhibitors of Human Pancreatic Î±-Amylase. <i>ACS Chemical Biology</i> , 2019, 14, 1751-1759. | 1.6 | 16 |
| 47 | PRODIGY-crystal: a web-tool for classification of biological interfaces in protein complexes. <i>Bioinformatics</i> , 2019, 35, 4821-4823. | 1.8 | 26 |
| 48 | Holo-like and Druggable Protein Conformations from Enhanced Sampling of Binding Pocket Volume and Shape. <i>Journal of Chemical Information and Modeling</i> , 2019, 59, 1515-1528. | 2.5 | 33 |
| 49 | West-Life: A Virtual Research Environment for structural biology. <i>Journal of Structural Biology: X</i> , 2019, 1, 100006. | 0.7 | 2 |
| 50 | Large-scale prediction of binding affinity in proteinâ€“small ligand complexes: the PRODIGY-LIG web server. <i>Bioinformatics</i> , 2019, 35, 1585-1587. | 1.8 | 130 |
| 51 | Natural helix 9 mutants of PPARÎ³ differently affect its transcriptional activity. <i>Molecular Metabolism</i> , 2019, 20, 115-127. | 3.0 | 12 |
| 52 | iSEE: Interface structure, evolution, and energyâ€“based machine learning predictor of binding affinity changes upon mutations. <i>Proteins: Structure, Function and Bioinformatics</i> , 2019, 87, 110-119. | 1.5 | 58 |
| 53 | Finding the Î”G spot: Are predictors of binding affinity changes upon mutations in proteinâ€“protein interactions ready for it?. <i>Wiley Interdisciplinary Reviews: Computational Molecular Science</i> , 2019, 9, e1410. | 6.2 | 86 |
| 54 | Proteinâ€“ligand pose and affinity prediction: Lessons from D3R Grand Challenge 3. <i>Journal of Computer-Aided Molecular Design</i> , 2019, 33, 83-91. | 1.3 | 23 |

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| 55 | Cover Image, Volume 86, Issue S1. Proteins: Structure, Function and Bioinformatics, 2018, 86, C1. | 1.5 | 2 |
| 56 | Assessment of contact predictions in CASP12: Co-evolution and deep learning coming of age. Proteins: Structure, Function and Bioinformatics, 2018, 86, 51-66. | 1.5 | 174 |
| 57 | Performance of HADDOCK and a simple contact-based protein-ligand binding affinity predictor in the D3R Grand Challenge 2. Journal of Computer-Aided Molecular Design, 2018, 32, 175-185. | 1.3 | 97 |
| 58 | A Membrane Protein Complex Docking Benchmark. Journal of Molecular Biology, 2018, 430, 5246-5256. | 2.0 | 24 |
| 59 | Distinguishing crystallographic from biological interfaces in protein complexes: role of intermolecular contacts and energetics for classification. BMC Bioinformatics, 2018, 19, 438. | 1.2 | 25 |
| 60 | Mapping the Contact Sites of the Escherichia coli Division-Initiating Proteins FtsZ and ZapA by BAMG Cross-Linking and Site-Directed Mutagenesis. International Journal of Molecular Sciences, 2018, 19, 2928. | 1.8 | 11 |
| 61 | INDIGO-DataCloud: a Platform to Facilitate Seamless Access to E-Infrastructures. Journal of Grid Computing, 2018, 16, 381-408. | 2.5 | 58 |
| 62 | HADDOCK. , 2018, , 1-3. | | 1 |
| 63 | Defining distance restraints in HADDOCK. Nature Protocols, 2018, 13, 1503-1503. | 5.5 | 18 |
| 64 | Rapid Prediction of Multi-dimensional NMR Data Sets Using FANDAS. Methods in Molecular Biology, 2018, 1688, 111-132. | 0.4 | 3 |
| 65 | pdb-tools: a swiss army knife for molecular structures. F1000Research, 2018, 7, 1961. | 0.8 | 99 |
| 66 | Template-based protein-protein docking exploiting pairwise interfacial residue restraints. Briefings in Bioinformatics, 2017, 18, bbw027. | 3.2 | 17 |
| 67 | A benchmark testing ground for integrating homology modeling and protein docking. Proteins: Structure, Function and Bioinformatics, 2017, 85, 10-16. | 1.5 | 29 |
| 68 | The DisVis and PowerFit Web Servers: Explorative and Integrative Modeling of Biomolecular Complexes. Journal of Molecular Biology, 2017, 429, 399-407. | 2.0 | 43 |
| 69 | Information-Driven, Ensemble Flexible Peptide Docking Using HADDOCK. Methods in Molecular Biology, 2017, 1561, 109-138. | 0.4 | 35 |
| 70 | Prediction of Biomolecular Complexes. , 2017, , 265-292. | | 11 |
| 71 | Prevention of $\hat{V}^39\hat{V}^2$ T Cell Activation by a $\hat{V}^39\hat{V}^2$ TCR Nanobody. Journal of Immunology, 2017, 198, 308-317. | 0.4 | 9 |
| 72 | Frontispiece: Supramolecular Organization and Functional Implications of K ⁺ Channel Clusters in Membranes. Angewandte Chemie - International Edition, 2017, 56, . | 7.2 | 0 |

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| 73 | SpotOn: High Accuracy Identification of Protein-Protein Interface Hot-Spots. Scientific Reports, 2017, 7, 8007. | 1.6 | 77 |
| 74 | Supramolekulare Organisation und funktionale Auswirkungen von Ballungen von K ⁺ -Kanälen in Membranen. Angewandte Chemie, 2017, 129, 13404-13409. | 1.6 | 1 |
| 75 | Supramolecular Organization and Functional Implications of K ⁺ Channel Clusters in Membranes. Angewandte Chemie - International Edition, 2017, 56, 13222-13227. | 7.2 | 28 |
| 76 | Membrane proteins structures: A review on computational modeling tools. Biochimica Et Biophysica Acta - Biomembranes, 2017, 1859, 2021-2039. | 1.4 | 87 |
| 77 | M3: an integrative framework for structure determination of molecular machines. Nature Methods, 2017, 14, 897-902. | 9.0 | 39 |
| 78 | Sense and simplicity in HADDOCK scoring: Lessons from CASP-CAPRI round 1. Proteins: Structure, Function and Bioinformatics, 2017, 85, 417-423. | 1.5 | 44 |
| 79 | Frontispiz: Supramolekulare Organisation und funktionale Auswirkungen von Ballungen von K ⁺ -Kanälen in Membranen. Angewandte Chemie, 2017, 129, . | 1.6 | 0 |
| 80 | PRODIGY: A Contact-based Predictor of Binding Affinity in Protein-protein Complexes. Bio-protocol, 2017, 7, e2124. | 0.2 | 46 |
| 81 | A Machine Learning Approach for Hot-Spot Detection at Protein-Protein Interfaces. International Journal of Molecular Sciences, 2016, 17, 1215. | 1.8 | 46 |
| 82 | dMM-PBSA: A New HADDOCK Scoring Function for Protein-Peptide Docking. Frontiers in Molecular Biosciences, 2016, 3, 46. | 1.6 | 67 |
| 83 | Novel Insights into Guide RNA 5'-Nucleoside/Tide Binding by Human Argonaute 2. International Journal of Molecular Sciences, 2016, 17, 22. | 1.8 | 11 |
| 84 | New Insight into the Catalytic Mechanism of Bacterial MraY from Enzyme Kinetics and Docking Studies. Journal of Biological Chemistry, 2016, 291, 15057-15068. | 1.6 | 17 |
| 85 | Prediction of homoprotein and heteroprotein complexes by protein docking and template-based modeling: A CASP-CAPRI experiment. Proteins: Structure, Function and Bioinformatics, 2016, 84, 323-348. | 1.5 | 148 |
| 86 | On the Combination of Restraint-Driven Docking of Flexible Peptides to Ion Channels - Lessons Learnt from the Complex Formed by the Spider Venom PcTx1 and the Acid Sensing Ion Channel1. Biophysical Journal, 2016, 110, 536a. | 0.2 | 0 |
| 87 | Defining the limits and reliability of rigid-body fitting in cryo-EM maps using multi-scale image pyramids. Journal of Structural Biology, 2016, 195, 252-258. | 1.3 | 10 |
| 88 | PRODIGY: a web server for predicting the binding affinity of protein-protein complexes. Bioinformatics, 2016, 32, 3676-3678. | 1.8 | 760 |
| 89 | Data publication with the structural biology data grid supports live analysis. Nature Communications, 2016, 7, 10882. | 5.8 | 113 |
| 90 | Structural basis of GM-CSF and IL-2 sequestration by the viral decoy receptor GIF. Nature Communications, 2016, 7, 13228. | 5.8 | 15 |

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| 91 | Structure of the bacterial plant-ferredoxin receptor FusA. <i>Nature Communications</i> , 2016, 7, 13308. | 5.8 | 26 |
| 92 | Exploring the interplay between experimental methods and the performance of predictors of binding affinity change upon mutations in protein complexes. <i>Protein Engineering, Design and Selection</i> , 2016, 29, 291-299. | 1.0 | 26 |
| 93 | Molecular dynamics characterization of the conformational landscape of small peptides: A series of hands-on collaborative practical sessions for undergraduate students. <i>Biochemistry and Molecular Biology Education</i> , 2016, 44, 160-167. | 0.5 | 9 |
| 94 | The solution structure of the kallikrein-related peptidases inhibitor SPINK6. <i>Biochemical and Biophysical Research Communications</i> , 2016, 471, 103-108. | 1.0 | 7 |
| 95 | Combination of Ambiguous and Unambiguous Data in the Restraint-driven Docking of Flexible Peptides with HADDOCK: The Binding of the Spider Toxin PcTx1 to the Acid Sensing Ion Channel (ASIC) 1a. <i>Journal of Chemical Information and Modeling</i> , 2016, 56, 127-138. | 2.5 | 15 |
| 96 | The HADDOCK2.2 Web Server: User-Friendly Integrative Modeling of Biomolecular Complexes. <i>Journal of Molecular Biology</i> , 2016, 428, 720-725. | 2.0 | 2,071 |
| 97 | Non-interacting surface solvation and dynamics in protein-protein interactions. <i>Proteins: Structure, Function and Bioinformatics</i> , 2015, 83, 445-458. | 1.5 | 22 |
| 98 | Structure-Function Relationships of Antimicrobial Peptides and Proteins with Respect to Contact Molecules on Pathogen Surfaces. <i>Current Topics in Medicinal Chemistry</i> , 2015, 16, 89-98. | 1.0 | 18 |
| 99 | Future opportunities and trends for e-infrastructures and life sciences: going beyond the grid to enable life science data analysis. <i>Frontiers in Genetics</i> , 2015, 6, 197. | 1.1 | 8 |
| 100 | Contacts-based prediction of binding affinity in protein-protein complexes. <i>ELife</i> , 2015, 4, e07454. | 2.8 | 385 |
| 101 | Dynamic binding mode of a Synaptotagmin-1-SNARE complex in solution. <i>Nature Structural and Molecular Biology</i> , 2015, 22, 555-564. | 3.6 | 129 |
| 102 | The Supramolecular Organization of a Peptide-Based Nanocarrier at High Molecular Detail. <i>Journal of the American Chemical Society</i> , 2015, 137, 7775-7784. | 6.6 | 50 |
| 103 | Probing a cell-embedded megadalton protein complex by DNP-supported solid-state NMR. <i>Nature Methods</i> , 2015, 12, 649-652. | 9.0 | 124 |
| 104 | DisVis: quantifying and visualizing accessible interaction space of distance-restrained biomolecular complexes. <i>Bioinformatics</i> , 2015, 31, 3222-3224. | 1.8 | 61 |
| 105 | Computational prediction of protein interfaces: A review of data driven methods. <i>FEBS Letters</i> , 2015, 589, 3516-3526. | 1.3 | 148 |
| 106 | Conformational Plasticity of the POTRA 5 Domain in the Outer Membrane Protein Assembly Factor BamA. <i>Structure</i> , 2015, 23, 1317-1324. | 1.6 | 25 |
| 107 | Information-Driven Structural Modelling of Protein-Protein Interactions. <i>Methods in Molecular Biology</i> , 2015, 1215, 399-424. | 0.4 | 13 |
| 108 | Outcome of the First wwPDB Hybrid/Integrative Methods Task Force Workshop. <i>Structure</i> , 2015, 23, 1156-1167. | 1.6 | 159 |

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| 109 | Integrative Modeling of Biomolecular Complexes: HADDOCKing with Cryo-Electron Microscopy Data. <i>Structure</i> , 2015, 23, 949-960. | 1.6 | 69 |
| 110 | Performance of the WeNMR CS-Rosetta3 web server in CASD-NMR. <i>Journal of Biomolecular NMR</i> , 2015, 62, 497-502. | 1.6 | 9 |
| 111 | Extended O-GlcNAc on HLA Class-I-Bound Peptides. <i>Journal of the American Chemical Society</i> , 2015, 137, 10922-10925. | 6.6 | 72 |
| 112 | Updates to the Integrated Protein-Protein Interaction Benchmarks: Docking Benchmark Version 5 and Affinity Benchmark Version 2. <i>Journal of Molecular Biology</i> , 2015, 427, 3031-3041. | 2.0 | 348 |
| 113 | Editorial overview: Protein-protein interactions. <i>Current Opinion in Structural Biology</i> , 2015, 35, vii-ix. | 2.6 | 0 |
| 114 | NMR-Based Modeling and Refinement of Protein 3D Structures. <i>Methods in Molecular Biology</i> , 2015, 1215, 351-380. | 0.4 | 5 |
| 115 | Information-Driven Modeling of Protein-Peptide Complexes. <i>Methods in Molecular Biology</i> , 2015, 1268, 221-239. | 0.4 | 24 |
| 116 | Fast and sensitive rigid-body fitting into cryo-EM density maps with PowerFit. <i>AIMS Biophysics</i> , 2015, 2, 73-87. | 0.3 | 49 |
| 117 | Insight into cyanobacterial circadian timing from structural details of the KaiB-KaiC interaction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 1379-1384. | 3.3 | 61 |
| 118 | Modeling Protein-Protein Complexes Using the HADDOCK Webserver – Modeling Protein Complexes with HADDOCK. <i>Methods in Molecular Biology</i> , 2014, 1137, 163-179. | 0.4 | 51 |
| 119 | Proteins Feel More Than They See: Fine-Tuning of Binding Affinity by Properties of the Non-Interacting Surface. <i>Journal of Molecular Biology</i> , 2014, 426, 2632-2652. | 2.0 | 103 |
| 120 | Integrative computational modeling of protein interactions. <i>FEBS Journal</i> , 2014, 281, 1988-2003. | 2.2 | 94 |
| 121 | Blind prediction of interfacial water positions in CAPRI. <i>Proteins: Structure, Function and Bioinformatics</i> , 2014, 82, 620-632. | 1.5 | 50 |
| 122 | Binding Hotspots of BAZ2B Bromodomain: Histone Interaction Revealed by Solution NMR Driven Docking. <i>Biochemistry</i> , 2014, 53, 6706-6716. | 1.2 | 23 |
| 123 | HADDOCK _{2P2I} : A Biophysical Model for Predicting the Binding Affinity of Protein-Protein Interaction Inhibitors. <i>Journal of Chemical Information and Modeling</i> , 2014, 54, 826-836. | 2.5 | 30 |
| 124 | Mass Spec Studio for Integrative Structural Biology. <i>Structure</i> , 2014, 22, 1538-1548. | 1.6 | 86 |
| 125 | Information-driven modeling of large macromolecular assemblies using NMR data. <i>Journal of Magnetic Resonance</i> , 2014, 241, 103-114. | 1.2 | 29 |
| 126 | Sequence co-evolution gives 3D contacts and structures of protein complexes. <i>ELife</i> , 2014, 3, . | 2.8 | 452 |

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| 127 | Improving 3D structure prediction from chemical shift data. <i>Journal of Biomolecular NMR</i> , 2013, 57, 27-35. | 1.6 | 25 |
| 128 | Solvated proteinâ€“DNA docking using HADDOCK. <i>Journal of Biomolecular NMR</i> , 2013, 56, 51-63. | 1.6 | 23 |
| 129 | Defining the limits of homology modeling in informationâ€“driven protein docking. <i>Proteins: Structure, Function and Bioinformatics</i> , 2013, 81, 2119-2128. | 1.5 | 63 |
| 130 | Molecular origins of binding affinity: seeking the Archimedean point. <i>Current Opinion in Structural Biology</i> , 2013, 23, 868-877. | 2.6 | 37 |
| 131 | Advances in integrative modeling of biomolecular complexes. <i>Methods</i> , 2013, 59, 372-381. | 1.9 | 67 |
| 132 | Proteinâ€“protein interactions. <i>Current Opinion in Structural Biology</i> , 2013, 23, 859-861. | 2.6 | 6 |
| 133 | Solvated proteinâ€“protein docking using Kyteâ€“Doolittleâ€“based water preferences. <i>Proteins: Structure, Function and Bioinformatics</i> , 2013, 81, 510-518. | 1.5 | 26 |
| 134 | Structural Determinants of Specific Lipid Binding to Potassium Channels. <i>Journal of the American Chemical Society</i> , 2013, 135, 3983-3988. | 6.6 | 73 |
| 135 | Importance of lipidâ€“pore loop interface for potassium channel structure and function. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 13008-13013. | 3.3 | 48 |
| 136 | Short-Chain Fatty Acids Stimulate Angiopoietin-Like 4 Synthesis in Human Colon Adenocarcinoma Cells by Activating Peroxisome Proliferator-Activated Receptor Î³. <i>Molecular and Cellular Biology</i> , 2013, 33, 1303-1316. | 1.1 | 219 |
| 137 | On the binding affinity of macromolecular interactions: daring to ask why proteins interact. <i>Journal of the Royal Society Interface</i> , 2013, 10, 20120835. | 1.5 | 353 |
| 138 | A gp41 MPER-specific Llama VHH Requires a Hydrophobic CDR3 for Neutralization but not for Antigen Recognition. <i>PLoS Pathogens</i> , 2013, 9, e1003202. | 2.1 | 64 |
| 139 | Turning Defense into Offense: Defensin Mimetics as Novel Antibiotics Targeting Lipid II. <i>PLoS Pathogens</i> , 2013, 9, e1003732. | 2.1 | 50 |
| 140 | Gentamicin Binds to the Megalin Receptor as a Competitive Inhibitor Using the Common Ligand Binding Motif of Complement Type Repeats. <i>Journal of Biological Chemistry</i> , 2013, 288, 4424-4435. | 1.6 | 47 |
| 141 | On the usefulness of ion-mobility mass spectrometry and SAXS data in scoring docking decoys. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2013, 69, 683-694. | 2.5 | 55 |
| 142 | Unveiling the Interaction of Vanadium Compounds with Human Serum Albumin by Using 1H STD NMR and Computational Docking Studies. <i>European Journal of Inorganic Chemistry</i> , 2013, 2013, 4619-4627. | 1.0 | 18 |
| 143 | A Unified Conformational Selection and Induced Fit Approach to Protein-Peptide Docking. <i>PLoS ONE</i> , 2013, 8, e58769. | 1.1 | 163 |
| 144 | Community-wide evaluation of methods for predicting the effect of mutations on protein-protein interactions. <i>Proteins: Structure, Function and Bioinformatics</i> , 2013, 81, 1980-1987. | 1.5 | 87 |

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| 145 | Dynamic Control of Selectivity in the Ubiquitination Pathway Revealed by an ASP to GLU Substitution in an Intra-Molecular Salt-Bridge Network. <i>PLoS Computational Biology</i> , 2012, 8, e1002754. | 1.5 | 18 |
| 146 | WeNMR: Structural Biology on the Grid. <i>Journal of Grid Computing</i> , 2012, 10, 743-767. | 2.5 | 170 |
| 147 | Rapid prediction of multi-dimensional NMR data sets. <i>Journal of Biomolecular NMR</i> , 2012, 54, 377-387. | 1.6 | 35 |
| 148 | SQUEEZE-E: The Optimal Solution for Molecular Simulations with Periodic Boundary Conditions. <i>Journal of Chemical Theory and Computation</i> , 2012, 8, 3618-3627. | 2.3 | 6 |
| 149 | MTMDAT-HADDOCK: High-throughput, protein complex structure modeling based on limited proteolysis and mass spectrometry. <i>BMC Structural Biology</i> , 2012, 12, 29. | 2.3 | 11 |
| 150 | Supramolecular Structure of Membrane-Associated Polypeptides by Combining Solid-State NMR and Molecular Dynamics Simulations. <i>Biophysical Journal</i> , 2012, 103, 29-37. | 0.2 | 17 |
| 151 | In support of the BMRB. <i>Nature Structural and Molecular Biology</i> , 2012, 19, 854-860. | 3.6 | 6 |
| 152 | Explicit Treatment of Water Molecules in Data-Driven Protein-Protein Docking: The Solvated HADDOCKing Approach. <i>Methods in Molecular Biology</i> , 2012, 819, 355-374. | 0.4 | 20 |
| 153 | Next challenges in protein-protein docking: from proteome to interactome and beyond. <i>Wiley Interdisciplinary Reviews: Computational Molecular Science</i> , 2012, 2, 642-651. | 6.2 | 26 |
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