

Xiaoqin Zou

List of Publications by Year in descending order

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73
papers

4,552
citations

117453

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106150

65
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76
all docs

76
docs citations

76
times ranked

4438
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Predicting Proteinâ€“Peptide Complex Structures by Accounting for Peptide Flexibility and the Physicochemical Environment. <i>Journal of Chemical Information and Modeling</i> , 2022, 62, 27-39. | 2.5 | 13 |
| 2 | Carbohydrate-protein interactions: advances and challenges. <i>Communications in Information and Systems</i> , 2021, 21, 147-163. | 0.3 | 9 |
| 3 | Rapid Identification of Inhibitors and Prediction of Ligand Selectivity for Multiple Proteins: Application to Protein Kinases. <i>Journal of Physical Chemistry B</i> , 2021, 125, 2288-2298. | 1.2 | 3 |
| 4 | The three-way junction structure of the HIV-1 PBS-segment binds host enzyme important for viral infectivity. <i>Nucleic Acids Research</i> , 2021, 49, 5925-5942. | 6.5 | 9 |
| 5 | Modulating the voltage sensor of a cardiac potassium channel shows antiarrhythmic effects. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, . | 3.3 | 6 |
| 6 | INI1/SMARCB1 Rpt1 domain mimics TAR RNA in binding to integrase to facilitate HIV-1 replication. <i>Nature Communications</i> , 2021, 12, 2743. | 5.8 | 9 |
| 7 | Prediction of protein assemblies, the next frontier: The <scp>CASP14â€“CAPRI</scp> experiment. <i>Proteins: Structure, Function and Bioinformatics</i> , 2021, 89, 1800-1823. | 1.5 | 73 |
| 8 | MDock: A Suite for Molecular Inverse Docking and Target Prediction. <i>Methods in Molecular Biology</i> , 2021, 2266, 313-322. | 0.4 | 7 |
| 9 | A Selective Tether Recruits Activated Response Regulator CheB to Its Chemoreceptor Substrate. <i>MBio</i> , 2021, 12, e0310621. | 1.8 | 4 |
| 10 | Dissimilar Ligands Bind in a Similar Fashion: A Guide to Ligand Binding-Mode Prediction with Application to CELPP Studies. <i>International Journal of Molecular Sciences</i> , 2021, 22, 12320. | 1.8 | 6 |
| 11 | TRIC-A Channel Maintains Store Calcium Handling by Interacting With Type 2 Ryanodine Receptor in Cardiac Muscle. <i>Circulation Research</i> , 2020, 126, 417-435. | 2.0 | 19 |
| 12 | PepPro: A Nonredundant Structure Data Set for Benchmarking Peptideâ€“Protein Computational Docking. <i>Journal of Computational Chemistry</i> , 2020, 41, 362-369. | 1.5 | 13 |
| 13 | A PIP2 substitute mediates voltage sensor-pore coupling in KCNQ activation. <i>Communications Biology</i> , 2020, 3, 385. | 2.0 | 22 |
| 14 | Structural basis of prostate-specific membrane antigen recognition by the A9g RNA aptamer. <i>Nucleic Acids Research</i> , 2020, 48, 11130-11145. | 6.5 | 15 |
| 15 | Performance of human and server prediction in <scp>CAPRI</scp> rounds 38â€“45. <i>Proteins: Structure, Function and Bioinformatics</i> , 2020, 88, 1110-1120. | 1.5 | 6 |
| 16 | Two-stage electroâ€“mechanical coupling of a KV channel in voltage-dependent activation. <i>Nature Communications</i> , 2020, 11, 676. | 5.8 | 46 |
| 17 | Binding interface and impact on protease cleavage for an RNA aptamer to HIV-1 reverse transcriptase. <i>Nucleic Acids Research</i> , 2020, 48, 2709-2722. | 6.5 | 22 |
| 18 | Scoring functions for protein-RNA complex structure prediction: advances, applications, and future directions. <i>Communications in Information and Systems</i> , 2020, 20, 1-22. | 0.3 | 3 |

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|----|--|-----|-----------|
| 19 | MDockPeP: A Web Server for Blind Prediction of Proteinâ€“Peptide Complex Structures. <i>Methods in Molecular Biology</i> , 2020, 2165, 259-272. | 0.4 | 4 |
| 20 | 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 |
| 21 | Predicting proteinâ€“ligand binding modes for CELPP and GC3: workflows and insight. <i>Journal of Computer-Aided Molecular Design</i> , 2019, 33, 367-374. | 1.3 | 11 |
| 22 | Identifying the molecular target sites for CFTR potentiators GLPG1837 and VX-770. <i>Journal of General Physiology</i> , 2019, 151, 912-928. | 0.9 | 57 |
| 23 | Docking-based inverse virtual screening: methods, applications, and challenges. <i>Biophysics Reports</i> , 2018, 4, 1-16. | 0.2 | 99 |
| 24 | MDockServer: An Efficient Docking Platform for Inverse Virtual Screening. <i>Biophysical Journal</i> , 2018, 114, 56a. | 0.2 | 1 |
| 25 | Lessons learned from participating in D3R 2016 Grand Challenge 2: compounds targeting the farnesoid X receptor. <i>Journal of Computer-Aided Molecular Design</i> , 2018, 32, 103-111. | 1.3 | 12 |
| 26 | MDockPeP: An <i>in initio</i> proteinâ€“peptide docking server. <i>Journal of Computational Chemistry</i> , 2018, 39, 2409-2413. | 1.5 | 59 |
| 27 | The Usage of ACCLUSTER for Peptide Binding Site Prediction. <i>Methods in Molecular Biology</i> , 2017, 1561, 3-9. | 0.4 | 2 |
| 28 | Modeling of flux, binding and substitution of urea molecules in the urea transporter dvUT. <i>Journal of Molecular Graphics and Modelling</i> , 2017, 76, 504-511. | 1.3 | 3 |
| 29 | Performance of MDockPP in CAPRI rounds 28â€“29 and 31â€“35 including the prediction of waterâ€“mediated interactions. <i>Proteins: Structure, Function and Bioinformatics</i> , 2017, 85, 424-434. | 1.5 | 11 |
| 30 | Improving binding mode and binding affinity predictions of docking by ligand-based search of protein conformations: evaluation in D3R grand challenge 2015. <i>Journal of Computer-Aided Molecular Design</i> , 2017, 31, 689-699. | 1.3 | 15 |
| 31 | Prediction of homoprotein and heteroprotein complexes by protein docking and templateâ€“based modeling: A CASPâ€“CAPRI experiment. <i>Proteins: Structure, Function and Bioinformatics</i> , 2016, 84, 323-348. | 1.5 | 148 |
| 32 | SM-TF: A structural database of small molecule-transcription factor complexes. <i>Journal of Computational Chemistry</i> , 2016, 37, 1559-1564. | 1.5 | 4 |
| 33 | Fully Blind Docking at the Atomic Level for Protein-Peptide Complex Structure Prediction. <i>Structure</i> , 2016, 24, 1842-1853. | 1.6 | 86 |
| 34 | Iterative Knowledge-Based Scoring Functions Derived from Rigid and Flexible Decoy Structures: Evaluation with the 2013 and 2014 CSAR Benchmarks. <i>Journal of Chemical Information and Modeling</i> , 2016, 56, 1013-1021. | 2.5 | 21 |
| 35 | MDock: An Ensemble Docking Suite for Molecular Docking, Scoring and In Silico Screening. <i>Methods in Pharmacology and Toxicology</i> , 2015, , 153-166. | 0.1 | 8 |
| 36 | Computation and Simulation of the Structural Characteristics of the Kidney Urea Transporter and Behaviors of Urea Transport. <i>Journal of Physical Chemistry B</i> , 2015, 119, 5124-5131. | 1.2 | 13 |

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|----|---|-----|-----------|
| 37 | Predicting peptide binding sites on protein surfaces by clustering chemical interactions. <i>Journal of Computational Chemistry</i> , 2015, 36, 49-61. | 1.5 | 41 |
| 38 | A knowledge-based scoring function for protein-RNA interactions derived from a statistical mechanics-based iterative method. <i>Nucleic Acids Research</i> , 2014, 42, e55-e55. | 6.5 | 110 |
| 39 | A Bayesian statistical approach of improving knowledge-based scoring functions for protein-ligand interactions. <i>Journal of Computational Chemistry</i> , 2014, 35, 932-943. | 1.5 | 10 |
| 40 | Blind prediction of interfacial water positions in CAPRI. <i>Proteins: Structure, Function and Bioinformatics</i> , 2014, 82, 620-632. | 1.5 | 50 |
| 41 | Challenges, Applications, and Recent Advances of Protein-Ligand Docking in Structure-Based Drug Design. <i>Molecules</i> , 2014, 19, 10150-10176. | 1.7 | 163 |
| 42 | ITScorePro: An Efficient Scoring Program for Evaluating the Energy Scores of Protein Structures for Structure Prediction. <i>Methods in Molecular Biology</i> , 2014, 1137, 71-81. | 0.4 | 5 |
| 43 | Inclusion of the orientational entropic effect and low-resolution experimental information for protein-protein docking in Critical Assessment of PRedicted Interactions (CAPRI). <i>Proteins: Structure, Function and Bioinformatics</i> , 2013, 81, 2183-2191. | 1.5 | 18 |
| 44 | A nonredundant structure dataset for benchmarking protein-RNA computational docking. <i>Journal of Computational Chemistry</i> , 2013, 34, 311-318. | 1.5 | 46 |
| 45 | Automated Large-Scale File Preparation, Docking, and Scoring: Evaluation of ITScore and STScore Using the 2012 Community Structure-Activity Resource Benchmark. <i>Journal of Chemical Information and Modeling</i> , 2013, 53, 1905-1914. | 2.5 | 18 |
| 46 | 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 |
| 47 | Rational Truncation of an RNA Aptamer to Prostate-Specific Membrane Antigen Using Computational Structural Modeling. <i>Nucleic Acid Therapeutics</i> , 2011, 21, 299-314. | 2.0 | 106 |
| 48 | Construction and Test of Ligand Decoy Sets Using MDock: Community Structure-Activity Resource Benchmarks for Binding Mode Prediction. <i>Journal of Chemical Information and Modeling</i> , 2011, 51, 2107-2114. | 2.5 | 21 |
| 49 | Scoring and Lessons Learned with the CSAR Benchmark Using an Improved Iterative Knowledge-Based Scoring Function. <i>Journal of Chemical Information and Modeling</i> , 2011, 51, 2097-2106. | 2.5 | 31 |
| 50 | Community-Wide Assessment of Protein-Interface Modeling Suggests Improvements to Design Methodology. <i>Journal of Molecular Biology</i> , 2011, 414, 289-302. | 2.0 | 131 |
| 51 | Statistical mechanics-based method to extract atomic distance-dependent potentials from protein structures. <i>Proteins: Structure, Function and Bioinformatics</i> , 2011, 79, 2648-2661. | 1.5 | 60 |
| 52 | An inverse docking approach for identifying new potential anti-cancer targets. <i>Journal of Molecular Graphics and Modelling</i> , 2011, 29, 795-799. | 1.3 | 60 |
| 53 | MDockPP: A hierarchical approach for protein-protein docking and its application to CAPRI rounds 15-19. <i>Proteins: Structure, Function and Bioinformatics</i> , 2010, 78, 3096-3103. | 1.5 | 65 |
| 54 | Ion sensing in the RCK1 domain of BK channels. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 18700-18705. | 3.3 | 78 |

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|----|---|-----|-----------|
| 55 | Advances and Challenges in Protein-Ligand Docking. <i>International Journal of Molecular Sciences</i> , 2010, 11, 3016-3034. | 1.8 | 418 |
| 56 | Scoring functions and their evaluation methods for protein-ligand docking: recent advances and future directions. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 12899. | 1.3 | 380 |
| 57 | Mean-Force Scoring Functions for Protein-Ligand Binding. <i>Annual Reports in Computational Chemistry</i> , 2010, , 280-296. | 0.9 | 11 |
| 58 | Inclusion of Solvation and Entropy in the Knowledge-Based Scoring Function for Protein-Ligand Interactions. <i>Journal of Chemical Information and Modeling</i> , 2010, 50, 262-273. | 2.5 | 118 |
| 59 | Molecular modeling of the heterodimer of human CFTR's nucleotide-binding domains using a protein-protein docking approach. <i>Journal of Molecular Graphics and Modelling</i> , 2009, 27, 822-828. | 1.3 | 31 |
| 60 | Multiscale Generalized Born Modeling of Ligand Binding Energies for Virtual Database Screening. <i>Journal of Physical Chemistry B</i> , 2009, 113, 11793-11799. | 1.2 | 11 |
| 61 | An iterative knowledge-based scoring function for protein-protein recognition. <i>Proteins: Structure, Function and Bioinformatics</i> , 2008, 72, 557-579. | 1.5 | 242 |
| 62 | Electrostatics of Ligand Binding: Parametrization of the Generalized Born Model and Comparison with the Poisson-Boltzmann Approach. <i>Journal of Physical Chemistry B</i> , 2006, 110, 9304-9313. | 1.2 | 48 |
| 63 | Ensemble docking of multiple protein structures: Considering protein structural variations in molecular docking. <i>Proteins: Structure, Function and Bioinformatics</i> , 2006, 66, 399-421. | 1.5 | 314 |
| 64 | Efficient molecular docking of NMR structures: Application to HIV-1 protease. <i>Protein Science</i> , 2006, 16, 43-51. | 3.1 | 93 |
| 65 | An iterative knowledge-based scoring function to predict protein-ligand interactions: I. Derivation of interaction potentials. <i>Journal of Computational Chemistry</i> , 2006, 27, 1866-1875. | 1.5 | 167 |
| 66 | An iterative knowledge-based scoring function to predict protein-ligand interactions: II. Validation of the scoring function. <i>Journal of Computational Chemistry</i> , 2006, 27, 1876-1882. | 1.5 | 141 |
| 67 | The Two ATP Binding Sites of Cystic Fibrosis Transmembrane Conductance Regulator (CFTR) Play Distinct Roles in Gating Kinetics and Energetics. <i>Journal of General Physiology</i> , 2006, 128, 413-422. | 0.9 | 71 |
| 68 | High affinity ATP/ADP analogues as new tools for studying CFTR gating. <i>Journal of Physiology</i> , 2005, 569, 447-457. | 1.3 | 45 |
| 69 | CFTR Gating II. <i>Journal of General Physiology</i> , 2005, 125, 377-394. | 0.9 | 52 |
| 70 | Pairwise GB/SA Scoring Function for Structure-based Drug Design. <i>Journal of Physical Chemistry B</i> , 2004, 108, 5453-5462. | 1.2 | 56 |
| 71 | ATP Hydrolysis-Coupled Gating of CFTR Chloride Channels: Structure and Function. <i>Biochemistry</i> , 2001, 40, 5579-5586. | 1.2 | 22 |
| 72 | Design, docking, and evaluation of multiple libraries against multiple targets. <i>Proteins: Structure, Function and Bioinformatics</i> , 2001, 42, 296-318. | 1.5 | 66 |

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|----|---|-----|-----------|
| 73 | Inclusion of Solvation in Ligand Binding Free Energy Calculations Using the Generalized-Born Model. Journal of the American Chemical Society, 1999, 121, 8033-8043. | 6.6 | 228 |