

Renxiao Wang

List of Publications by Year in descending order

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60
papers

10,436
citations

101384

36
h-index

143772

57
g-index

60
all docs

60
docs citations

60
times ranked

10004
citing authors

#	ARTICLE	IF	CITATIONS
1	Further development and validation of empirical scoring functions for structure-based binding affinity prediction. <i>Journal of Computer-Aided Molecular Design</i> , 2002, 16, 11-26.	1.3	1,012
2	Comparative Evaluation of 11 Scoring Functions for Molecular Docking. <i>Journal of Medicinal Chemistry</i> , 2003, 46, 2287-2303.	2.9	834
3	The PDBbind Database: A Collection of Binding Affinities for Protein-Ligand Complexes with Known Three-Dimensional Structures. <i>Journal of Medicinal Chemistry</i> , 2004, 47, 2977-2980.	2.9	787
4	The PDBbind Database: Methodologies and Updates. <i>Journal of Medicinal Chemistry</i> , 2005, 48, 4111-4119.	2.9	632
5	Computation of Octanol-Water Partition Coefficients by Guiding an Additive Model with Knowledge. <i>Journal of Chemical Information and Modeling</i> , 2007, 47, 2140-2148.	2.5	601
6	Development and optimization of a binding assay for the XIAP BIR3 domain using fluorescence polarization. <i>Analytical Biochemistry</i> , 2004, 332, 261-273.	1.1	479
7	A low-molecular-weight compound discovered through virtual database screening inhibits Stat3 function in breast cancer cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 4700-4705.	3.3	460
8	Comparative Assessment of Scoring Functions on a Diverse Test Set. <i>Journal of Chemical Information and Modeling</i> , 2009, 49, 1079-1093.	2.5	444
9	A New Atom-Additive Method for Calculating Partition Coefficients. <i>Journal of Chemical Information and Computer Sciences</i> , 1997, 37, 615-621.	2.8	399
10	PDB-wide collection of binding data: current status of the PDBbind database. <i>Bioinformatics</i> , 2015, 31, 405-412.	1.8	375
11	Comparative Assessment of Scoring Functions: The CASF-2016 Update. <i>Journal of Chemical Information and Modeling</i> , 2019, 59, 895-913.	2.5	367
12	Discovery of Embelin as a Cell-Permeable, Small-Molecular Weight Inhibitor of XIAP through Structure-Based Computational Screening of a Traditional Herbal Medicine Three-Dimensional Structure Database. <i>Journal of Medicinal Chemistry</i> , 2004, 47, 2430-2440.	2.9	335
13	Comparative Assessment of Scoring Functions on an Updated Benchmark: 2. Evaluation Methods and General Results. <i>Journal of Chemical Information and Modeling</i> , 2014, 54, 1717-1736.	2.5	294
14	How Does Consensus Scoring Work for Virtual Library Screening? An Idealized Computer Experiment. <i>Journal of Chemical Information and Computer Sciences</i> , 2001, 41, 1422-1426.	2.8	279
15	Evaluation of the performance of four molecular docking programs on a diverse set of protein-ligand complexes. <i>Journal of Computational Chemistry</i> , 2010, 31, 2109-2125.	1.5	277
16	SCORE: A New Empirical Method for Estimating the Binding Affinity of a Protein-Ligand Complex. <i>Journal of Molecular Modeling</i> , 1998, 4, 379-394.	0.8	275
17	Structure-Based Design of Potent Small-Molecule Inhibitors of Anti-Apoptotic Bcl-2 Proteins. <i>Journal of Medicinal Chemistry</i> , 2006, 49, 6139-6142.	2.9	274
18	Forging the Basis for Developing Protein-Ligand Interaction Scoring Functions. <i>Accounts of Chemical Research</i> , 2017, 50, 302-309.	7.6	257

#	ARTICLE	IF	CITATIONS
19	An Extensive Test of 14 Scoring Functions Using the PDBbind Refined Set of 800 Protein-Ligand Complexes. <i>Journal of Chemical Information and Computer Sciences</i> , 2004, 44, 2114-2125.	2.8	234
20	Classification of Current Scoring Functions. <i>Journal of Chemical Information and Modeling</i> , 2015, 55, 475-482.	2.5	218
21	Comparative Assessment of Scoring Functions on an Updated Benchmark: 1. Compilation of the Test Set. <i>Journal of Chemical Information and Modeling</i> , 2014, 54, 1700-1716.	2.5	175
22	Calculating partition coefficient by atom-additive method. <i>Journal of Computer - Aided Molecular Design</i> , 2000, 19, 47-66.	1.0	172
23	Analysis of Ligand-Bound Water Molecules in High-Resolution Crystal Structures of Protein-Ligand Complexes. <i>Journal of Chemical Information and Modeling</i> , 2007, 47, 668-675.	2.5	156
24	Structure-based method for analyzing protein-protein interfaces. <i>Journal of Molecular Modeling</i> , 2004, 10, 44-54.	0.8	96
25	Breast Cancer Cells Can Evade Apoptosis-Mediated Selective Killing by a Novel Small Molecule Inhibitor of Bcl-2. <i>Cancer Research</i> , 2004, 64, 7947-7953.	0.4	85
26	Assessing protein-ligand interaction scoring functions with the CASF-2013 benchmark. <i>Nature Protocols</i> , 2018, 13, 666-680.	5.5	79
27	AlloFinder: a strategy for allosteric modulator discovery and allosterome analyses. <i>Nucleic Acids Research</i> , 2018, 46, W451-W458.	6.5	79
28	TopoP-S: Persistent homology-based multi-task deep neural networks for simultaneous predictions of partition coefficient and aqueous solubility. <i>Journal of Computational Chemistry</i> , 2018, 39, 1444-1454.	1.5	71
29	M-Score: A Knowledge-Based Potential Scoring Function Accounting for Protein Atom Mobility. <i>Journal of Medicinal Chemistry</i> , 2006, 49, 5903-5911.	2.9	63
30	Tapping on the Black Box: How Is the Scoring Power of a Machine-Learning Scoring Function Dependent on the Training Set?. <i>Journal of Chemical Information and Modeling</i> , 2020, 60, 1122-1136.	2.5	56
31	Hemolytic mechanism of dioscin proposed by molecular dynamics simulations. <i>Journal of Molecular Modeling</i> , 2010, 16, 107-118.	0.8	52
32	Pyrogallol-Based Molecules as Potent Inhibitors of the Antiapoptotic Bcl-2 Proteins. <i>Journal of Medicinal Chemistry</i> , 2007, 50, 1723-1726.	2.9	44
33	Discovery and Development of Thiazolo[3,2-a]pyrimidinone Derivatives as General Inhibitors of Bcl-2 Family Proteins. <i>ChemMedChem</i> , 2011, 6, 904-921.	1.6	44
34	Structure-Based Design of Flavonoid Compounds As a New Class of Small-Molecule Inhibitors of the Anti-apoptotic Bcl-2 Proteins. <i>Journal of Medicinal Chemistry</i> , 2007, 50, 3163-3166.	2.9	39
35	Calculating Partition Coefficients of Peptides by the Addition Method. <i>Journal of Molecular Modeling</i> , 1999, 5, 189-195.	0.8	38
36	Automatic Perception of Organic Molecules Based on Essential Structural Information. <i>Journal of Chemical Information and Modeling</i> , 2007, 47, 1379-1385.	2.5	37

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37	Interpretation of the Binding Affinities of PTP1B Inhibitors with the MM-GB/SA Method and the X-Score Scoring Function. <i>Journal of Chemical Information and Modeling</i> , 2009, 49, 1033-1048.	2.5	31
38	Test MM-PB/SA on True Conformational Ensembles of Protein-Ligand Complexes. <i>Journal of Chemical Information and Modeling</i> , 2010, 50, 1682-1692.	2.5	31
39	Geometrical Preferences of the Hydrogen Bonds on Protein-Ligand Binding Interface Derived from Statistical Surveys and Quantum Mechanics Calculations. <i>Journal of Chemical Theory and Computation</i> , 2008, 4, 1959-1973.	2.3	27
40	Screening of Small-Molecule Inhibitors of Protein-Protein Interaction with Capillary Electrophoresis Frontal Analysis. <i>Analytical Chemistry</i> , 2016, 88, 8050-8057.	3.2	25
41	AutoT&T v.2: An Efficient and Versatile Tool for Lead Structure Generation and Optimization. <i>Journal of Chemical Information and Modeling</i> , 2016, 56, 435-453.	2.5	24
42	Rational design of Tamiflu derivatives targeting at the open conformation of neuraminidase subtype 1. <i>Journal of Molecular Graphics and Modelling</i> , 2009, 28, 203-219.	1.3	19
43	De Novo Design, Synthesis and Evaluation of Benzylpiperazine Derivatives as Highly Selective Binders of Mcl-1. <i>ChemMedChem</i> , 2013, 8, 1986-2014.	1.6	19
44	A knowledge-guided strategy for improving the accuracy of scoring functions in binding affinity prediction. <i>BMC Bioinformatics</i> , 2010, 11, 193.	1.2	18
45	A Systematic Analysis of the Effect of Small-Molecule Binding on Protein Flexibility of the Ligand-Binding Sites. <i>Journal of Medicinal Chemistry</i> , 2005, 48, 5648-5650.	2.9	17
46	Automatic Tailoring and Transplanting: A Practical Method that Makes Virtual Screening More Useful. <i>Journal of Chemical Information and Modeling</i> , 2011, 51, 1474-1491.	2.5	15
47	Characterization of the Stereochemical Structures of 2-Hydroxythiazolo[3,2-a]pyrimidine Compounds and Their Binding Affinities for Anti-apoptotic Bcl-2 Family Proteins. <i>ChemMedChem</i> , 2013, 8, 1345-1352.	1.6	14
48	Enhance the performance of current scoring functions with the aid of 3D protein-ligand interaction fingerprints. <i>BMC Bioinformatics</i> , 2017, 18, 343.	1.2	14
49	Development of 3-Phenyl-N-(2-(3-phenylureido)ethyl)thiophene-2-sulfonamide Compounds as Inhibitors of Antiapoptotic Bcl-2 Family Proteins. <i>ChemMedChem</i> , 2014, 9, 1436-1452.	1.6	11
50	Revisiting the Relationship Between Correlation Coefficient, Confidence Level, and Sample Size. <i>Journal of Chemical Information and Modeling</i> , 2019, 59, 4602-4612.	2.5	11
51	Cross-Mapping of Protein-Ligand Binding Data Between ChEMBL and PDBbind. <i>Molecular Informatics</i> , 2015, 34, 568-576.	1.4	9
52	Development of a new benchmark for assessing the scoring functions applicable to protein-protein interactions. <i>Future Medicinal Chemistry</i> , 2018, 10, 1555-1574.	1.1	9
53	Public Data Set of Protein-Ligand Dissociation Kinetic Constants for Quantitative Structure-Kinetics Relationship Studies. <i>ACS Omega</i> , 2022, 7, 18985-18996.	1.6	7
54	Structure-Based Optimization of 3-Phenyl-N-(2-(3-phenylureido)ethyl)thiophene-2-sulfonamide Derivatives as Selective Mcl-1 Inhibitors. <i>Journal of Medicinal Chemistry</i> , 2021, 64, 10260-10285.	2.9	6

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55	A Statistical Survey on the Binding Constants of Covalently Bound Protein-Ligand Complexes. <i>Molecular Informatics</i> , 2010, 29, 87-96.	1.4	4
56	I-SOLV: A new surface-based empirical model for computing solvation free energies. <i>Journal of Molecular Graphics and Modelling</i> , 2007, 26, 368-377.	1.3	3
57	Experimental Methods Used for Identifying Small-Molecule Inhibitors of Protein-Protein Interaction. , 2018, , 95-133.		2
58	Synthesis of 4-(2-Phenylhydrazono)-1-(4-phenylthiazol-2-yl)-1 <i>H</i> -pyrazol-5(4 <i>H</i>)-one Compounds and Characterization of Their Affinities to Anti-apoptotic Bcl-2 Family Proteins. <i>Chinese Journal of Chemistry</i> , 2013, 31, 1133-1138.	2.6	1
59	An Extensive Test for 14 Scoring Functions Using the PDBbind Refined Set of 800 Protein-Ligand Complexes.. <i>ChemInform</i> , 2005, 36, no.	0.1	0
60	Computational Methods Applicable to the Discovery of Small-Molecule Inhibitors of Protein-Protein Interactions. , 2018, , 73-94.		0