

Ting-Jun Hou

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354
papers

15,832
citations

64
h-index

111
g-index

383
ext. papers

19,505
ext. citations

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avg, IF

7.01
L-index

#	Paper	IF	Citations
354	Assessing the performance of the MM/PBSA and MM/GBSA methods. 1. The accuracy of binding free energy calculations based on molecular dynamics simulations. <i>Journal of Chemical Information and Modeling</i> , 2011 , 51, 69-82	6.1	1511
353	Assessing the performance of the molecular mechanics/Poisson Boltzmann surface area and molecular mechanics/generalized Born surface area methods. II. The accuracy of ranking poses generated from docking. <i>Journal of Computational Chemistry</i> , 2011 , 32, 866-77	3.5	484
352	End-Point Binding Free Energy Calculation with MM/PBSA and MM/GBSA: Strategies and Applications in Drug Design. <i>Chemical Reviews</i> , 2019 , 119, 9478-9508	68.1	449
351	Assessing the performance of MM/PBSA and MM/GBSA methods. 4. Accuracies of MM/PBSA and MM/GBSA methodologies evaluated by various simulation protocols using PDBbind data set. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 16719-29	3.6	426
350	Comprehensive evaluation of ten docking programs on a diverse set of protein-ligand complexes: the prediction accuracy of sampling power and scoring power. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 12964-75	3.6	400
349	Assessing the performance of MM/PBSA and MM/GBSA methods. 3. The impact of force fields and ligand charge models. <i>Journal of Physical Chemistry B</i> , 2013 , 117, 8408-21	3.4	334
348	Assessing the performance of MM/PBSA and MM/GBSA methods. 5. Improved docking performance using high solute dielectric constant MM/GBSA and MM/PBSA rescoring. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 22035-45	3.6	322
347	Assessing the performance of the MM/PBSA and MM/GBSA methods. 6. Capability to predict protein-protein binding free energies and re-rank binding poses generated by protein-protein docking. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 22129-39	3.6	246
346	Recent Advances in Free Energy Calculations with a Combination of Molecular Mechanics and Continuum Models. <i>Current Computer-Aided Drug Design</i> , 2006 , 2, 287-306	1.4	230
345	Molecular dynamics and free energy studies on the wild-type and double mutant HIV-1 protease complexed with amprenavir and two amprenavir-related inhibitors: mechanism for binding and drug resistance. <i>Journal of Medicinal Chemistry</i> , 2007 , 50, 1177-88	8.3	216
344	The application of in silico drug-likeness predictions in pharmaceutical research. <i>Advanced Drug Delivery Reviews</i> , 2015 , 86, 2-10	18.5	190
343	Characterization of domain-peptide interaction interface: a case study on the amphiphysin-1 SH3 domain. <i>Journal of Molecular Biology</i> , 2008 , 376, 1201-14	6.5	179
342	ADME evaluation in drug discovery. 4. Prediction of aqueous solubility based on atom contribution approach. <i>Journal of Chemical Information and Computer Sciences</i> , 2004 , 44, 266-75		176
341	Characterization of domain-peptide interaction interface: prediction of SH3 domain-mediated protein-protein interaction network in yeast by generic structure-based models. <i>Journal of Proteome Research</i> , 2012 , 11, 2982-95	5.6	173
340	Janus Structures of Transition Metal Dichalcogenides as the Heterojunction Photocatalysts for Water Splitting. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 3123-3129	3.8	160
339	Recent development and application of virtual screening in drug discovery: an overview. <i>Current Pharmaceutical Design</i> , 2004 , 10, 1011-33	3.3	158
338	Assessing the performance of MM/PBSA and MM/GBSA methods. 7. Entropy effects on the performance of end-point binding free energy calculation approaches. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 14450-14460	3.6	149

337	ADMETlab 2.0: an integrated online platform for accurate and comprehensive predictions of ADMET properties. <i>Nucleic Acids Research</i> , 2021 , 49, W5-W14	20.1	148
336	Recent advances in computational prediction of drug absorption and permeability in drug discovery. <i>Current Medicinal Chemistry</i> , 2006 , 13, 2653-67	4.3	147
335	ADME evaluation in drug discovery. 7. Prediction of oral absorption by correlation and classification. <i>Journal of Chemical Information and Modeling</i> , 2007 , 47, 208-18	6.1	141
334	HawkDock: a web server to predict and analyze the protein-protein complex based on computational docking and MM/GBSA. <i>Nucleic Acids Research</i> , 2019 , 47, W322-W330	20.1	139
333	ADME evaluation in drug discovery. 6. Can oral bioavailability in humans be effectively predicted by simple molecular property-based rules?. <i>Journal of Chemical Information and Modeling</i> , 2007 , 47, 460-3	6.1	138
332	Computational analysis and prediction of the binding motif and protein interacting partners of the Abl SH3 domain. <i>PLoS Computational Biology</i> , 2006 , 2, e1	5	129
331	ADME evaluation in drug discovery. 5. Correlation of Caco-2 permeation with simple molecular properties. <i>Journal of Chemical Information and Computer Sciences</i> , 2004 , 44, 1585-600		129
330	ADME evaluation in drug discovery. 10. Predictions of P-glycoprotein inhibitors using recursive partitioning and naive Bayesian classification techniques. <i>Molecular Pharmaceutics</i> , 2011 , 8, 889-900	5.6	125
329	Allosite: a method for predicting allosteric sites. <i>Bioinformatics</i> , 2013 , 29, 2357-9	7.2	117
328	Development of polarizable models for molecular mechanical calculations I: parameterization of atomic polarizability. <i>Journal of Physical Chemistry B</i> , 2011 , 115, 3091-9	3.4	114
327	ADMET evaluation in drug discovery. 12. Development of binary classification models for prediction of hERG potassium channel blockage. <i>Molecular Pharmaceutics</i> , 2012 , 9, 996-1010	5.6	111
326	Computational models for predicting substrates or inhibitors of P-glycoprotein. <i>Drug Discovery Today</i> , 2012 , 17, 343-51	8.8	107
325	Evaluating the potency of HIV-1 protease drugs to combat resistance. <i>Proteins: Structure, Function and Bioinformatics</i> , 2008 , 71, 1163-74	4.2	103
324	Potential Application of Novel Boron-Doped Graphene Nanoribbon as Oxygen Reduction Reaction Catalyst. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 17427-17434	3.8	101
323	ADME evaluation in drug discovery. 3. Modeling blood-brain barrier partitioning using simple molecular descriptors. <i>Journal of Chemical Information and Computer Sciences</i> , 2003 , 43, 2137-52		98
322	Atomistic Origins of Surface Defects in CHNHPbBr Perovskite and Their Electronic Structures. <i>ACS Nano</i> , 2017 , 11, 2060-2065	16.7	93
321	ADME evaluation in drug discovery. 8. The prediction of human intestinal absorption by a support vector machine. <i>Journal of Chemical Information and Modeling</i> , 2007 , 47, 2408-15	6.1	93
320	Characterization of domain-peptide interaction interface: a generic structure-based model to decipher the binding specificity of SH3 domains. <i>Molecular and Cellular Proteomics</i> , 2009 , 8, 639-49	7.6	92

319	Structure-ADME relationship: still a long way to go?. <i>Expert Opinion on Drug Metabolism and Toxicology</i> , 2008 , 4, 759-70	5.5	92
318	Application of molecular dynamics simulations in molecular property prediction II: diffusion coefficient. <i>Journal of Computational Chemistry</i> , 2011 , 32, 3505-19	3.5	91
317	Drug-likeness analysis of traditional Chinese medicines: prediction of drug-likeness using machine learning approaches. <i>Molecular Pharmaceutics</i> , 2012 , 9, 2875-86	5.6	88
316	ADME evaluation in drug discovery. 1. Applications of genetic algorithms to the prediction of blood-brain partitioning of a large set of drugs. <i>Journal of Molecular Modeling</i> , 2002 , 8, 337-49	2	87
315	Two-dimensional germanium monochalcogenide photocatalyst for water splitting under ultraviolet, visible to near-infrared light. <i>Nanoscale</i> , 2017 , 9, 8608-8615	7.7	85
314	Application of Molecular Dynamics Simulations in Molecular Property Prediction I: Density and Heat of Vaporization. <i>Journal of Chemical Theory and Computation</i> , 2011 , 7, 2151-2165	6.4	85
313	ADME evaluation in drug discovery. 9. Prediction of oral bioavailability in humans based on molecular properties and structural fingerprints. <i>Molecular Pharmaceutics</i> , 2011 , 8, 841-51	5.6	83
312	Recent advances on aqueous solubility prediction. <i>Combinatorial Chemistry and High Throughput Screening</i> , 2011 , 14, 328-38	1.3	83
311	Drug and drug candidate building block analysis. <i>Journal of Chemical Information and Modeling</i> , 2010 , 50, 55-67	6.1	83
310	Assessing an ensemble docking-based virtual screening strategy for kinase targets by considering protein flexibility. <i>Journal of Chemical Information and Modeling</i> , 2014 , 54, 2664-79	6.1	79
309	Mechanism of graphene oxide as an enzyme inhibitor from molecular dynamics simulations. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 7153-63	9.5	79
308	Development of reliable aqueous solubility models and their application in druglike analysis. <i>Journal of Chemical Information and Modeling</i> , 2007 , 47, 1395-404	6.1	79
307	MORT: a powerful foundational library for computational biology and CADD. <i>Journal of Cheminformatics</i> , 2014 , 6,	8.6	78
306	P-loop conformation governed crizotinib resistance in G2032R-mutated ROS1 tyrosine kinase: clues from free energy landscape. <i>PLoS Computational Biology</i> , 2014 , 10, e1003729	5	77
305	Predictions of Binding of a Diverse Set of Ligands to Gelatinase-A by a Combination of Molecular Dynamics and Continuum Solvent Models. <i>Journal of Physical Chemistry B</i> , 2002 , 106, 5527-5535	3.4	76
304	Insight into crizotinib resistance mechanisms caused by three mutations in ALK tyrosine kinase using free energy calculation approaches. <i>Journal of Chemical Information and Modeling</i> , 2013 , 53, 2376-89	6.1	75
303	Two-Dimensional MnO ₂ as a Better Cathode Material for Lithium Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 28783-28788	3.8	75
302	A 3D structure database of components from Chinese traditional medicinal herbs. <i>Journal of Chemical Information and Computer Sciences</i> , 2002 , 42, 481-9		75

301	Detecting and understanding combinatorial mutation patterns responsible for HIV drug resistance. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 1321-6	11.5	72
300	Predicting drug resistance of the HIV-1 protease using molecular interaction energy components. <i>Proteins: Structure, Function and Bioinformatics</i> , 2009 , 74, 837-46	4.2	72
299	Current developments of macrophage migration inhibitory factor (MIF) inhibitors. <i>Drug Discovery Today</i> , 2013 , 18, 592-600	8.8	71
298	ADMET evaluation in drug discovery. 13. Development of in silico prediction models for P-glycoprotein substrates. <i>Molecular Pharmaceutics</i> , 2014 , 11, 716-26	5.6	70
297	Develop and test a solvent accessible surface area-based model in conformational entropy calculations. <i>Journal of Chemical Information and Modeling</i> , 2012 , 52, 1199-212	6.1	70
296	New Ti-decorated B40 fullerene as a promising hydrogen storage material. <i>Scientific Reports</i> , 2015 , 5, 9952	4.9	67
295	ADMET evaluation in drug discovery: 15. Accurate prediction of rat oral acute toxicity using relevance vector machine and consensus modeling. <i>Journal of Cheminformatics</i> , 2016 , 8, 6	8.6	67
294	Mapping the binding site of a large set of quinazoline type EGF-R inhibitors using molecular field analyses and molecular docking studies. <i>Journal of Chemical Information and Computer Sciences</i> , 2003 , 43, 273-87		66
293	Prediction of binding affinities between the human amphiphysin-1 SH3 domain and its peptide ligands using homology modeling, molecular dynamics and molecular field analysis. <i>Journal of Proteome Research</i> , 2006 , 5, 32-43	5.6	65
292	From machine learning to deep learning: Advances in scoring functions for protein-ligand docking. <i>Wiley Interdisciplinary Reviews: Computational Molecular Science</i> , 2020 , 10, e1429	7.9	65
291	Recent developments of in silico predictions of intestinal absorption and oral bioavailability. <i>Combinatorial Chemistry and High Throughput Screening</i> , 2009 , 12, 497-506	1.3	64
290	Peptide-Tethered Hydrogel Scaffold Promotes Recovery from Spinal Cord Transection via Synergism with Mesenchymal Stem Cells. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 3330-3342	9.5	61
289	Discovery of novel inhibitors targeting the macrophage migration inhibitory factor via structure-based virtual screening and bioassays. <i>Journal of Medicinal Chemistry</i> , 2014 , 57, 3737-45	8.3	61
288	Applications of genetic algorithms on the structure-activity relationship analysis of some cinnamamides. <i>Journal of Chemical Information and Computer Sciences</i> , 1999 , 39, 775-81		61
287	B40 fullerene: An efficient material for CO2 capture, storage and separation. <i>Current Applied Physics</i> , 2015 , 15, 1084-1089	2.6	60
286	ADMET Evaluation in Drug Discovery. 16. Predicting hERG Blockers by Combining Multiple Pharmacophores and Machine Learning Approaches. <i>Molecular Pharmaceutics</i> , 2016 , 13, 2855-66	5.6	60
285	Revealing the favorable dissociation pathway of type II kinase inhibitors via enhanced sampling simulations and two-end-state calculations. <i>Scientific Reports</i> , 2015 , 5, 8457	4.9	59
284	Stable and metallic borophene nanoribbons from first-principles calculations. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 6380-6385	7.1	59

283	Molybdenum disulfide as a highly efficient adsorbent for non-polar gases. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 11700-4	3.6	58
282	Recent developments in computational prediction of HERG blockage. <i>Current Topics in Medicinal Chemistry</i> , 2013 , 13, 1317-26	3	57
281	Advances in the development of Rho-associated protein kinase (ROCK) inhibitors. <i>Drug Discovery Today</i> , 2013 , 18, 1323-33	8.8	56
280	Theoretical studies on the susceptibility of oseltamivir against variants of 2009 A/H1N1 influenza neuraminidase. <i>Journal of Chemical Information and Modeling</i> , 2012 , 52, 2715-29	6.1	56
279	Fast approaches for molecular polarizability calculations. <i>Journal of Physical Chemistry A</i> , 2007 , 111, 4443-8	3.8	56
278	SiC7 siligraphene: a novel donor material with extraordinary sunlight absorption. <i>Nanoscale</i> , 2016 , 8, 6994-9	7.7	54
277	Prediction of peptides binding to the PKA RIIalpha subunit using a hierarchical strategy. <i>Bioinformatics</i> , 2011 , 27, 1814-21	7.2	54
276	Development and evaluation of an integrated virtual screening strategy by combining molecular docking and pharmacophore searching based on multiple protein structures. <i>Journal of Chemical Information and Modeling</i> , 2013 , 53, 2743-56	6.1	53
275	Discovery and optimization of triazine derivatives as ROCK1 inhibitors: molecular docking, molecular dynamics simulations and free energy calculations. <i>Molecular BioSystems</i> , 2013 , 9, 361-74	3.8	53
274	Monolayer graphitic germanium carbide (g-GeC): the promising cathode catalyst for fuel cell and lithium oxygen battery applications. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 2212-2218	13	52
273	Heptazine-based graphitic carbon nitride as an effective hydrogen purification membrane. <i>RSC Advances</i> , 2016 , 6, 52377-52383	3.7	52
272	Assessing the performance of MM/PBSA and MM/GBSA methods. 8. Predicting binding free energies and poses of protein-RNA complexes. <i>Rna</i> , 2018 , 24, 1183-1194	5.8	51
271	ADMET evaluation in drug discovery. 11. Pharmacokinetics Knowledge Base (PKKB): a comprehensive database of pharmacokinetic and toxic properties for drugs. <i>Journal of Chemical Information and Modeling</i> , 2012 , 52, 1132-7	6.1	51
270	Theoretical investigations on SiC2 siligraphene as promising metal-free catalyst for oxygen reduction reaction. <i>Journal of Power Sources</i> , 2015 , 299, 371-379	8.9	50
269	Morphology and Performance of Polymer Solar Cell Characterized by DPD Simulation and Graph Theory. <i>Scientific Reports</i> , 2015 , 5, 16854	4.9	49
268	Drug-likeness analysis of traditional Chinese medicines: 1. property distributions of drug-like compounds, non-drug-like compounds and natural compounds from traditional Chinese medicines. <i>Journal of Cheminformatics</i> , 2012 , 4, 31	8.6	49
267	Theoretical investigations on novel SiC5 siligraphene as gas sensor for air pollutants. <i>Carbon</i> , 2017 , 113, 114-121	10.4	48
266	Aqueous solubility prediction based on weighted atom type counts and solvent accessible surface areas. <i>Journal of Chemical Information and Modeling</i> , 2009 , 49, 571-81	6.1	48

265	CaFE: a tool for binding affinity prediction using end-point free energy methods. <i>Bioinformatics</i> , 2016 , 32, 2216-8	7.2	48
264	Assessing the performance of MM/PBSA and MM/GBSA methods. 9. Prediction reliability of binding affinities and binding poses for protein-peptide complexes. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 10135-10145	3.6	47
263	The tricyclic antidepressant amitriptyline inhibits D-cyclin transactivation and induces myeloma cell apoptosis by inhibiting histone deacetylases: in vitro and in silico evidence. <i>Molecular Pharmacology</i> , 2011 , 79, 672-80	4.3	47
262	Constructing and Validating High-Performance MIEC-SVM Models in Virtual Screening for Kinases: A Better Way for Actives Discovery. <i>Scientific Reports</i> , 2016 , 6, 24817	4.9	47
261	ADMET Evaluation in Drug Discovery. 18. Reliable Prediction of Chemical-Induced Urinary Tract Toxicity by Boosting Machine Learning Approaches. <i>Molecular Pharmaceutics</i> , 2017 , 14, 3935-3953	5.6	46
260	Discovery of Rho-kinase inhibitors by docking-based virtual screening. <i>Molecular BioSystems</i> , 2013 , 9, 1511-21		46
259	Drug Discovery Targeting Anaplastic Lymphoma Kinase (ALK). <i>Journal of Medicinal Chemistry</i> , 2019 , 62, 10927-10954	8.3	44
258	Simulation of the Phase Behavior of the (EO) ₁₃ (PO) ₃₀ (EO) ₁₃ (Pluronic L64)/Water/p-Xylene System Using MesoDyn. <i>Journal of Physical Chemistry B</i> , 2002 , 106, 11397-11403	3.4	44
257	MoS ₂ supported single platinum atoms and their superior catalytic activity for CO oxidation: a density functional theory study. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 23113-23119	13	43
256	ADMET Evaluation in Drug Discovery. Part 17: Development of Quantitative and Qualitative Prediction Models for Chemical-Induced Respiratory Toxicity. <i>Molecular Pharmaceutics</i> , 2017 , 14, 2407-2421	5.6	42
255	New use for an old drug: inhibiting ABCG2 with sorafenib. <i>Molecular Cancer Therapeutics</i> , 2012 , 11, 1693-1702	7.02	42
254	Computational modeling of structure-function of G protein-coupled receptors with applications for drug design. <i>Current Medicinal Chemistry</i> , 2010 , 17, 1167-80	4.3	42
253	Assessing the performance of the MM/PBSA and MM/GBSA methods. 10. Impacts of enhanced sampling and variable dielectric model on protein-protein interactions. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 18958-18969	3.6	41
252	Importance of protein flexibility in ranking inhibitor affinities: modeling the binding mechanisms of piperidine carboxamides as Type I/2 ALK inhibitors. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 6098-6113	3.6	41
251	Photophysical Studies on the Mono- and Dichromophoric Hemicyanine Dyes I. Photoelectric Conversion from the Dye Modified ITO Electrodes. <i>Journal of Physical Chemistry B</i> , 2002 , 106, 10020-10030	3.4	41
250	Farnesyltransferase and geranylgeranyltransferase I: structures, mechanism, inhibitors and molecular modeling. <i>Drug Discovery Today</i> , 2015 , 20, 267-76	8.8	40
249	ADMET Evaluation in Drug Discovery. 19. Reliable Prediction of Human Cytochrome P450 Inhibition Using Artificial Intelligence Approaches. <i>Journal of Chemical Information and Modeling</i> , 2019 , 59, 4587-4601	6.1	40
248	Computational simulation of drug delivery at molecular level. <i>Current Medicinal Chemistry</i> , 2010 , 17, 4482-91	4.91	40

247	Automated docking of peptides and proteins by using a genetic algorithm combined with a tabu search. <i>Protein Engineering, Design and Selection</i> , 1999 , 12, 639-48	1.9	40
246	Structural Diversity of Ligand-Binding Androgen Receptors Revealed by Microsecond Long Molecular Dynamics Simulations and Enhanced Sampling. <i>Journal of Chemical Theory and Computation</i> , 2016 , 12, 4611-9	6.4	39
245	Combined strategies in structure-based virtual screening. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 3149-3159	3.6	39
244	PROTAC-DB: an online database of PROTACs. <i>Nucleic Acids Research</i> , 2021 , 49, D1381-D1387	20.1	39
243	Directly Binding Rather than Induced-Fit Dominated Binding Affinity Difference in (S)- and (R)-Crizotinib Bound MTH1. <i>Journal of Chemical Theory and Computation</i> , 2016 , 12, 851-60	6.4	38
242	Monolayer group IVA monochalcogenides as potential and efficient catalysts for the oxygen reduction reaction from first-principles calculations. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 1734-1741 ¹³		37
241	ADME evaluation in drug discovery. 2. Prediction of partition coefficient by atom-additive approach based on atom-weighted solvent accessible surface areas. <i>Journal of Chemical Information and Computer Sciences</i> , 2003 , 43, 1058-67		37
240	Empirical Aqueous Solvation Models Based on Accessible Surface Areas with Implicit Electrostatics. <i>Journal of Physical Chemistry B</i> , 2002 , 106, 11295-11304	3.4	37
239	Structural basis of the interactions between CXCR4 and CXCL12/SDF-1 revealed by theoretical approaches. <i>Molecular BioSystems</i> , 2013 , 9, 2107-17		36
238	The antiparasitic clioquinol induces apoptosis in leukemia and myeloma cells by inhibiting histone deacetylase activity. <i>Journal of Biological Chemistry</i> , 2013 , 288, 34181-34189	5.4	36
237	Studies on the interactions between β adrenergic receptor and Gs protein by molecular dynamics simulations. <i>Journal of Chemical Information and Modeling</i> , 2012 , 52, 1005-14	6.1	36
236	Discovery of Novel and Selective Adenosine A Receptor Antagonists for Treating Parkinson's Disease through Comparative Structure-Based Virtual Screening. <i>Journal of Chemical Information and Modeling</i> , 2017 , 57, 1474-1487	6.1	35
235	Binding Affinities for a Series of Selective Inhibitors of Gelatinase-A Using Molecular Dynamics with a Linear Interaction Energy Approach. <i>Journal of Physical Chemistry B</i> , 2001 , 105, 5304-5315	3.4	35
234	B40 fullerene as a highly sensitive molecular device for NH ₃ detection at low bias: a first-principles study. <i>Nanotechnology</i> , 2016 , 27, 075501	3.4	34
233	Modeling compound-target interaction network of traditional Chinese medicines for type II diabetes mellitus: insight for polypharmacology and drug design. <i>Journal of Chemical Information and Modeling</i> , 2013 , 53, 1787-803	6.1	34
232	Recent developments of in silico predictions of oral bioavailability. <i>Combinatorial Chemistry and High Throughput Screening</i> , 2011 , 14, 362-74	1.3	34
231	Could graph neural networks learn better molecular representation for drug discovery? A comparison study of descriptor-based and graph-based models. <i>Journal of Cheminformatics</i> , 2021 , 13, 12	8.6	34
230	Molecular principle of topotecan resistance by topoisomerase I mutations through molecular modeling approaches. <i>Journal of Chemical Information and Modeling</i> , 2013 , 53, 997-1006	6.1	33

229	farPPI: a webserver for accurate prediction of protein-ligand binding structures for small-molecule PPI inhibitors by MM/PB(GB)SA methods. <i>Bioinformatics</i> , 2019 , 35, 1777-1779	7.2	33
228	Improving the alkaline stability of imidazolium cations by substitution. <i>ChemPhysChem</i> , 2014 , 15, 3006-14.2	14.2	32
227	Comprehensive Evaluation of Fourteen Docking Programs on Protein-Peptide Complexes. <i>Journal of Chemical Theory and Computation</i> , 2020 , 16, 3959-3969	6.4	32
226	Cheminformatic Insight into the Differences between Terrestrial and Marine Originated Natural Products. <i>Journal of Chemical Information and Modeling</i> , 2018 , 58, 1182-1193	6.1	32
225	Discovery of selective phosphatidylinositol 3-kinase inhibitors to treat hematological malignancies. <i>Drug Discovery Today</i> , 2015 , 20, 988-94	8.8	31
224	HawkRank: a new scoring function for protein-protein docking based on weighted energy terms. <i>Journal of Cheminformatics</i> , 2017 , 9, 66	8.6	31
223	Two-dimensional siligraphenes as cathode catalysts for nonaqueous lithium-oxygen batteries. <i>Carbon</i> , 2018 , 126, 580-587	10.4	31
222	Targeting the phosphatidylinositol 3-kinase/AKT pathway for the treatment of multiple myeloma. <i>Current Medicinal Chemistry</i> , 2014 , 21, 3173-87	4.3	31
221	Combating Drug-Resistant Mutants of Anaplastic Lymphoma Kinase with Potent and Selective Type-I Inhibitors by Stabilizing Unique DFG-Shifted Loop Conformation. <i>ACS Central Science</i> , 2017 , 3, 1208-1220	16.8	30
220	Monolayer germanium monochalcogenides (GeS/GeSe) as cathode catalysts in nonaqueous Li-O batteries. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 20457-20462	3.6	30
219	The Mesodyn simulation of pluronic water mixtures using the "Equivalent chain" method. <i>Physical Chemistry Chemical Physics</i> , 2000 , 2, 2749-2753	3.6	30
218	3D QSAR analyses of novel tyrosine kinase inhibitors based on pharmacophore alignment. <i>Journal of Chemical Information and Computer Sciences</i> , 2001 , 41, 1032-40		29
217	First-Principles Study on Migration and Coalescence of Point Defects in Monolayer Graphene. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 17066-17072	3.8	28
216	Characterizing Drug-Target Residence Time with Metadynamics: How To Achieve Dissociation Rate Efficiently without Losing Accuracy against Time-Consuming Approaches. <i>Journal of Chemical Information and Modeling</i> , 2017 , 57, 1895-1906	6.1	28
215	Understanding microscopic binding of macrophage migration inhibitory factor with phenolic hydrazones by molecular docking, molecular dynamics simulations and free energy calculations. <i>Molecular BioSystems</i> , 2012 , 8, 2260-73		28
214	Parameters for the Generalized Born Model Consistent with RESP Atomic Partial Charge Assignment Protocol. <i>Journal of Physical Chemistry B</i> , 2003 , 107, 9071-9078	3.4	28
213	Discovery of a benzofuran derivative (MBPTA) as a novel ROCK inhibitor that protects against MPP+-induced oxidative stress and cell death in SH-SY5Y cells. <i>Free Radical Biology and Medicine</i> , 2014 , 74, 283-93	7.8	27
212	Advances in computationally modeling human oral bioavailability. <i>Advanced Drug Delivery Reviews</i> , 2015 , 86, 11-6	18.5	27

211	The inflammatory cytokine IL-6 induces FRA1 deacetylation promoting colorectal cancer stem-like properties. <i>Oncogene</i> , 2019 , 38, 4932-4947	9.2	26
210	Structural stability and O ₂ dissociation on nitrogen-doped graphene with transition metal atoms embedded: A first-principles study. <i>AIP Advances</i> , 2015 , 5, 067136	1.5	26
209	The competitive binding between inhibitors and substrates of HCV NS3/4A protease: a general mechanism of drug resistance. <i>Antiviral Research</i> , 2014 , 103, 60-70	10.8	26
208	Unidirectional peristaltic movement in multisite drug binding pockets of AcrB from molecular dynamics simulations. <i>Molecular BioSystems</i> , 2012 , 8, 2699-709		26
207	The influence of defects on Mo-doped TiO ₂ by first-principles studies. <i>ChemPhysChem</i> , 2012 , 13, 1514-2132	3.2	26
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