

Garrett M Morris

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

78
papers

26,420
citations

28
h-index

101
g-index

101
ext. papers

30,426
ext. citations

6.3
avg, IF

6.64
L-index

#	Paper	IF	Citations
78	Characterization of the SARS-CoV-2 ExoN (nsp14ExoN-nsp10) complex: implications for its role in viral genome stability and inhibitor identification.. <i>Nucleic Acids Research</i> , 2022 ,	20.1	4
77	Understanding Conformational Entropy in Small Molecules. <i>Journal of Chemical Theory and Computation</i> , 2021 , 17, 2099-2106	6.4	6
76	Understanding Ring Puckering in Small Molecules and Cyclic Peptides. <i>Journal of Chemical Information and Modeling</i> , 2021 , 61, 743-755	6.1	9
75	Learning protein-ligand binding affinity with atomic environment vectors. <i>Journal of Cheminformatics</i> , 2021 , 13, 59	8.6	6
74	Discovery of SARS-CoV-2 M peptide inhibitors from modelling substrate and ligand binding. <i>Chemical Science</i> , 2021 , 12, 13686-13703	9.4	14
73	The prospects of quantum computing in computational molecular biology. <i>Wiley Interdisciplinary Reviews: Computational Molecular Science</i> , 2021 , 11, e1481	7.9	28
72	BOKEI: Bayesian optimization using knowledge of correlated torsions and expected improvement for conformer generation. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 5211-5219	3.6	6
71	Learning from the ligand: using ligand-based features to improve binding affinity prediction. <i>Bioinformatics</i> , 2020 , 36, 758-764	7.2	25
70	Ligity: A Non-Superpositional, Knowledge-Based Approach to Virtual Screening. <i>Journal of Chemical Information and Modeling</i> , 2019 , 59, 2600-2616	6.1	8
69	Bayesian optimization for conformer generation. <i>Journal of Cheminformatics</i> , 2019 , 11, 32	8.6	20
68	Understanding the structural requirements for activators of the Kef bacterial potassium efflux system. <i>Biochemistry</i> , 2014 , 53, 1982-92	3.2	20
67	Exploration of piperidinols as potential antitubercular agents. <i>Molecules</i> , 2014 , 19, 16274-90	4.8	12
66	The emerging role of cloud computing in molecular modelling. <i>Journal of Molecular Graphics and Modelling</i> , 2013 , 44, 177-87	2.8	23
65	One Size Does Not Fit All: The Limits of Structure-Based Models in Drug Discovery. <i>Journal of Chemical Theory and Computation</i> , 2013 , 9, 4266-4274	6.4	31
64	Shape-based similarity searching in chemical databases. <i>Wiley Interdisciplinary Reviews: Computational Molecular Science</i> , 2013 , 3, 226-241	7.9	16
63	Automated docking with protein flexibility in the design of femtomolar "click chemistry" inhibitors of acetylcholinesterase. <i>Journal of Chemical Information and Modeling</i> , 2013 , 53, 898-906	6.1	33
62	Molecular determinants of binding to the Plasmodium subtilisin-like protease 1. <i>Journal of Chemical Information and Modeling</i> , 2013 , 53, 573-83	6.1	23

61	Comparison of ultra-fast 2D and 3D ligand and target descriptors for side effect prediction and network analysis in polypharmacology. <i>British Journal of Pharmacology</i> , 2013 , 170, 557-67	8.6	11
60	Assessment of a probabilistic framework for combining structure- and ligand-based virtual screening. <i>Journal of Cheminformatics</i> , 2012 , 4,	8.6	78
59	Freely available conformer generation methods: how good are they?. <i>Journal of Chemical Information and Modeling</i> , 2012 , 52, 1146-58	6.1	128
58	Rapid and accurate prediction and scoring of water molecules in protein binding sites. <i>PLoS ONE</i> , 2012 , 7, e32036	3.7	124
57	Improving the accuracy of ultrafast ligand-based screening: incorporating lipophilicity into ElectroShape as an extra dimension. <i>Journal of Computer-Aided Molecular Design</i> , 2011 , 25, 785-90	4.2	28
56	Packaging HIV virion components through dynamic equilibria of a human tRNA synthetase. <i>Journal of Physical Chemistry B</i> , 2010 , 114, 16273-9	3.4	13
55	A dynamic model of HIV integrase inhibition and drug resistance. <i>Journal of Molecular Biology</i> , 2010 , 397, 600-15	6.5	52
54	ElectroShape: fast molecular similarity calculations incorporating shape, chirality and electrostatics. <i>Journal of Computer-Aided Molecular Design</i> , 2010 , 24, 789-801	4.2	60
53	AutoDock4 and AutoDockTools4: Automated docking with selective receptor flexibility. <i>Journal of Computational Chemistry</i> , 2009 , 30, 2785-91	3.5	11655
52	Molecular similarity including chirality. <i>Journal of Molecular Graphics and Modelling</i> , 2009 , 28, 368-70	2.8	17
51	Molecular docking. <i>Methods in Molecular Biology</i> , 2008 , 443, 365-82	1.4	307
50	Using AutoDock for ligand-receptor docking. <i>Current Protocols in Bioinformatics</i> , 2008 , Chapter 8, Unit 8.14	24.2	340
49	Functional proteomic and structural insights into molecular recognition in the nitrilase family enzymes. <i>Biochemistry</i> , 2008 , 47, 13514-23	3.2	43
48	Target flexibility: an emerging consideration in drug discovery and design. <i>Journal of Medicinal Chemistry</i> , 2008 , 51, 6237-55	8.3	244
47	Assessing the role of polarization in docking. <i>Journal of Physical Chemistry A</i> , 2008 , 112, 12157-63	2.8	36
46	Mapping of the CXCR4 binding site within variable region 3 of the feline immunodeficiency virus surface glycoprotein. <i>Journal of Virology</i> , 2008 , 82, 9134-42	6.6	21
45	Mechanistic and structural requirements for active site labeling of phosphoglycerate mutase by spiroepoxides. <i>Molecular BioSystems</i> , 2007 , 3, 495-506		42
44	A semiempirical free energy force field with charge-based desolvation. <i>Journal of Computational Chemistry</i> , 2007 , 28, 1145-52	3.5	1602

43	Structural insights into the mechanisms of drug resistance in HIV-1 protease NL4-3. <i>Journal of Molecular Biology</i> , 2006 , 356, 967-81	6.5	22
42	Structural mapping of CD134 residues critical for interaction with feline immunodeficiency virus. <i>Nature Structural and Molecular Biology</i> , 2005 , 12, 60-6	17.6	45
41	Active site binding modes of curcumin in HIV-1 protease and integrase. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2005 , 15, 3364-8	2.9	78
40	Automated docking of ligands to an artificial active site: augmenting crystallographic analysis with computer modeling. <i>Journal of Computer-Aided Molecular Design</i> , 2003 , 17, 525-36	4.2	74
39	Design and synthesis of broad-based mono- and bi- cyclic inhibitors of FIV and HIV proteases. <i>Bioorganic and Medicinal Chemistry</i> , 2003 , 11, 2025-40	3.4	18
38	Crystal structure of an intact human IgG: antibody asymmetry, flexibility, and a guide for HIV-1 vaccine design. <i>Advances in Experimental Medicine and Biology</i> , 2003 , 535, 55-66	3.6	32
37	Structural basis for distinctions between substrate and inhibitor specificities for feline immunodeficiency virus and human immunodeficiency virus proteases. <i>Journal of Virology</i> , 2003 , 77, 6589-600	6.6	19
36	Defining HIV-1 protease substrate selectivity. <i>Current Drug Targets Infectious Disorders</i> , 2002 , 2, 37-50		28
35	Automated docking to multiple target structures: incorporation of protein mobility and structural water heterogeneity in AutoDock. <i>Proteins: Structure, Function and Bioinformatics</i> , 2002 , 46, 34-40	4.2	34 ¹
34	Evolutionary analysis of HIV-1 protease inhibitors: Methods for design of inhibitors that evade resistance. <i>Proteins: Structure, Function and Bioinformatics</i> , 2002 , 48, 63-74	4.2	17
33	Model of the alphaLbeta2 integrin I-domain/ICAM-1 DI interface suggests that subtle changes in loop orientation determine ligand specificity. <i>Proteins: Structure, Function and Bioinformatics</i> , 2002 , 48, 151-60	4.2	15
32	Conformational changes in nitric oxide synthases induced by chlorzoxazone and nitroindazoles: crystallographic and computational analyses of inhibitor potency. <i>Biochemistry</i> , 2002 , 41, 13915-25	3.2	53
31	Mining for medicines \square n silico. <i>Trends in Biotechnology</i> , 2001 , 19, 123-124	15.1	2
30	Crystal structure of a neutralizing human IGG against HIV-1: a template for vaccine design. <i>Science</i> , 2001 , 293, 1155-9	33.3	76 ⁴
29	Viral evolution in response to the broad-based retroviral protease inhibitor TL-3. <i>Journal of Virology</i> , 2001 , 75, 9502-8	6.6	28
28	Recognition templates for predicting adenylate-binding sites in proteins. <i>Journal of Molecular Biology</i> , 2001 , 314, 1245-55	6.5	16
27	Structural studies of FIV and HIV-1 proteases complexed with an efficient inhibitor of FIV protease. <i>Proteins: Structure, Function and Bioinformatics</i> , 2000 , 38, 29-40	4.2	27
26	Alteration of substrate and inhibitor specificity of feline immunodeficiency virus protease. <i>Journal of Virology</i> , 2000 , 74, 4710-20	6.6	28

25	Protein-Ligand Docking. <i>Methods and Principles in Medicinal Chemistry</i> , 2000 , 31-48	0.4	16
24	Improved Evolutionary Hybrids for Flexible Ligand Docking in AutoDock. <i>Nonconvex Optimization and Its Applications</i> , 2000 , 209-229		12
23	Coevolutionary analysis of resistance-evading peptidomimetic inhibitors of HIV-1 protease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1999 , 96, 1369-74	11.5	14
22	Development of a New Type of Protease Inhibitors, Efficacious against FIV and HIV Variants. <i>Journal of the American Chemical Society</i> , 1999 , 121, 1145-1155	16.4	51
21	Coevolution and subsite decomposition for the design of resistance-evading HIV-1 protease inhibitors. <i>Journal of Molecular Biology</i> , 1999 , 287, 77-92	6.5	13
20	Automated docking using a Lamarckian genetic algorithm and an empirical binding free energy function 1998 , 19, 1639-1662		754 ⁸
19	Computational coevolution of antiviral drug resistance. <i>Artificial Life</i> , 1998 , 4, 41-59	1.4	3
18	Crystal structures of the inactive D30N mutant of feline immunodeficiency virus protease complexed with a substrate and an inhibitor. <i>Biochemistry</i> , 1997 , 36, 10696-708	3.2	55
17	Molecular analysis of the feline immunodeficiency virus protease: generation of a novel form of the protease by autoproteolysis and construction of cleavage-resistant proteases. <i>Journal of Virology</i> , 1997 , 71, 5505-11	6.6	21
16	Automated docking of flexible ligands: applications of AutoDock. <i>Journal of Molecular Recognition</i> , 1996 , 9, 1-5	2.6	1057
15	Distributed automated docking of flexible ligands to proteins: parallel applications of AutoDock 2.4. <i>Journal of Computer-Aided Molecular Design</i> , 1996 , 10, 293-304	4.2	796
14	Automated docking of flexible ligands: Applications of autodock 1996 , 9, 1		6
13	Seeing our way to drug design. <i>Journal of Computer - Aided Molecular Design</i> , 1993 , 1, 329-344		5
12	Molecular modelling of the sterol C-14 demethylase of <i>Saccharomyces cerevisiae</i> . <i>Biochemical Society Transactions</i> , 1991 , 19, 793-5	5.1	21
11	Electron transport in cytochromes P-450 by covalent switching. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 1991 , 245, 43-51	4.4	26
10	The active site of cytochrome P-450 nifedipine oxidase: a model-building study. <i>Journal of Molecular Graphics</i> , 1989 , 7, 206-11		25
9	The matching of protein sequences using color intrasequence homology displays. <i>Journal of Molecular Graphics</i> , 1988 , 6, 135-140		17
8	Bibliography of theoretical calculations in molecular pharmacology. <i>Journal of Molecular Graphics</i> , 1987 , 5, 211-222		4

7	Learning Protein-Ligand Binding Affinity with Atomic Environment Vectors	2
6	SuCOS is Better than RMSD for Evaluating Fragment Elaboration and Docking Poses	4
5	Characterisation of the SARS-CoV-2 ExoN (nsp14ExoN-nsp10) complex: implications for its role in viral genome stability and inhibitor identification	6
4	COVID Moonshot: Open Science Discovery of SARS-CoV-2 Main Protease Inhibitors by Combining Crowdsourcing, High-Throughput Experiments, Computational Simulations, and Machine Learning	18
3	Discovery of SARS-CoV-2 Mpro Peptide Inhibitors from Modelling Substrate and Ligand Binding	1
2	Investigating the potential for a limited quantum speedup on protein lattice problems. <i>New Journal of Physics</i> ,	2.9 2
1	Scoring Functions for Protein-Ligand Binding Affinity Prediction Using Structure-based Deep Learning: A Review. <i>Frontiers in Bioinformatics</i> ,2,	1