

Markus A Lill

List of Publications by Citations

Source: <https://exaly.com/author-pdf/8628395/markus-a-lill-publications-by-citations.pdf>

Version: 2024-04-10

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

89 papers	2,740 citations	29 h-index	50 g-index
99 ext. papers	3,103 ext. citations	4.5 avg, IF	5.67 L-index

#	Paper	IF	Citations
89	Computer-aided drug design platform using PyMOL. <i>Journal of Computer-Aided Molecular Design</i> , 2011 , 25, 13-9	4.2	278
88	Combining protein modeling and 6D-QSAR. Simulating the binding of structurally diverse ligands to the estrogen receptor. <i>Journal of Medicinal Chemistry</i> , 2005 , 48, 3700-3	8.3	145
87	Long-chain carboxychromanols, metabolites of vitamin E, are potent inhibitors of cyclooxygenases. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 20464-9	11.5	139
86	Proton shuttle in green fluorescent protein studied by dynamic simulations. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002 , 99, 2778-81	11.5	131
85	Multi-dimensional QSAR in drug discovery. <i>Drug Discovery Today</i> , 2007 , 12, 1013-7	8.8	116
84	Integrating structure-based and ligand-based approaches for computational drug design. <i>Future Medicinal Chemistry</i> , 2011 , 3, 735-50	4.1	101
83	Metrics for measuring distances in configuration spaces. <i>Journal of Chemical Physics</i> , 2013 , 139, 184118	3.9	96
82	Potential Inhibitors for Novel Coronavirus Protease Identified by Virtual Screening of 606 Million Compounds. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	96
81	Challenges predicting ligand-receptor interactions of promiscuous proteins: the nuclear receptor PXR. <i>PLoS Computational Biology</i> , 2009 , 5, e1000594	5	94
80	Dynamic water networks in cytochrome C oxidase from <i>Paracoccus denitrificans</i> investigated by molecular dynamics simulations. <i>Biophysical Journal</i> , 2004 , 86, 1873-89	2.9	89
79	Molecular dynamics simulation of proton transport with quantum mechanically derived proton hopping rates (Q-HOP MD). <i>Journal of Chemical Physics</i> , 2001 , 115, 7993-8005	3.9	80
78	Efficient incorporation of protein flexibility and dynamics into molecular docking simulations. <i>Biochemistry</i> , 2011 , 50, 6157-69	3.2	78
77	Substrate tunnels in enzymes: structure-function relationships and computational methodology. <i>Proteins: Structure, Function and Bioinformatics</i> , 2015 , 83, 599-611	4.2	77
76	The challenge of predicting drug toxicity in silico. <i>Basic and Clinical Pharmacology and Toxicology</i> , 2006 , 99, 195-208	3.1	59
75	Raptor: combining dual-shell representation, induced-fit simulation, and hydrophobicity scoring in receptor modeling: application toward the simulation of structurally diverse ligand sets. <i>Journal of Medicinal Chemistry</i> , 2004 , 47, 6174-86	8.3	56
74	WATsite: hydration site prediction program with PyMOL interface. <i>Journal of Computational Chemistry</i> , 2014 , 35, 1255-60	3.5	51
73	Prediction of small-molecule binding to cytochrome P450 3A4: flexible docking combined with multidimensional QSAR. <i>ChemMedChem</i> , 2006 , 1, 73-81	3.7	50

72	Impact of induced fit on ligand binding to the androgen receptor: a multidimensional QSAR study to predict endocrine-disrupting effects of environmental chemicals. <i>Journal of Medicinal Chemistry</i> , 2005 , 48, 5666-74	8.3	43
71	Virtual screening in drug design. <i>Methods in Molecular Biology</i> , 2013 , 993, 1-12	1.4	37
70	Extensive rigid analogue design maps the binding conformation of potent N-benzylphenethylamine 5-HT _{2A} serotonin receptor agonist ligands. <i>ACS Chemical Neuroscience</i> , 2013 , 4, 96-109	5.7	36
69	Novel ligands for the chemokine receptor-3 (CCR3): a receptor-modeling study based on 5D-QSAR. <i>Journal of Medicinal Chemistry</i> , 2005 , 48, 1515-27	8.3	36
68	Utilizing experimental data for reducing ensemble size in flexible-protein docking. <i>Journal of Chemical Information and Modeling</i> , 2012 , 52, 187-98	6.1	34
67	Decision Making in Structure-Based Drug Discovery: Visual Inspection of Docking Results. <i>Journal of Medicinal Chemistry</i> , 2021 , 64, 2489-2500	8.3	34
66	Protein pharmacophore selection using hydration-site analysis. <i>Journal of Chemical Information and Modeling</i> , 2012 , 52, 1046-60	6.1	33
65	Compact parameter set for fast estimation of proton transfer rates. <i>Journal of Chemical Physics</i> , 2001 , 114, 1125-1132	3.9	33
64	PharmDock: a pharmacophore-based docking program. <i>Journal of Cheminformatics</i> , 2014 , 6, 14	8.6	31
63	Simulating alpha/beta selectivity at the human thyroid hormone receptor: consensus scoring using multidimensional QSAR. <i>ChemMedChem</i> , 2007 , 2, 78-87	3.7	30
62	Kinetics of the initial steps of G protein-coupled receptor-mediated cellular signaling revealed by single-molecule imaging. <i>ChemPhysChem</i> , 2005 , 6, 1633-40	3.2	30
61	Induced fit docking, and the use of QM/MM methods in docking. <i>Drug Discovery Today: Technologies</i> , 2013 , 10, e411-8	7.1	29
60	Reaction rates for proton transfer over small barriers and connection to transition state theory. <i>Journal of Chemical Physics</i> , 2001 , 115, 7985-7992	3.9	27
59	Accounting for Environmental Effects in ab Initio Calculations of Proton Transfer Barriers. <i>Journal of Physical Chemistry A</i> , 2000 , 104, 8283-8289	2.8	26
58	Including ligand-induced protein flexibility into protein tunnel prediction. <i>Journal of Computational Chemistry</i> , 2014 , 35, 1748-56	3.5	25
57	Significant enhancement of docking sensitivity using implicit ligand sampling. <i>Journal of Chemical Information and Modeling</i> , 2011 , 51, 693-706	6.1	23
56	Potentially increasing the metabolic stability of drug candidates via computational site of metabolism prediction by CYP2C9: The utility of incorporating protein flexibility via an ensemble of structures. <i>European Journal of Medicinal Chemistry</i> , 2011 , 46, 3953-63	6.8	22
55	Exploring the potential of protein-based pharmacophore models in ligand pose prediction and ranking. <i>Journal of Chemical Information and Modeling</i> , 2013 , 53, 1179-90	6.1	21

54	In silico prediction of harmful effects triggered by drugs and chemicals. <i>Toxicology and Applied Pharmacology</i> , 2005 , 207, 398-407	4.6	21
53	Solvent interaction energy calculations on molecular dynamics trajectories: increasing the efficiency using systematic frame selection. <i>Journal of Chemical Information and Modeling</i> , 2011 , 51, 2680-9	6.1	20
52	Combining structure- and ligand-based approaches to improve site of metabolism prediction in CYP2C9 substrates. <i>Pharmaceutical Research</i> , 2015 , 32, 986-1001	4.5	19
51	Stabilization of an unusual salt bridge in ubiquitin by the extra C-terminal domain of the proteasome-associated deubiquitinase UCH37 as a mechanism of its exo specificity. <i>Biochemistry</i> , 2013 , 52, 3564-78	3.2	19
50	Mapping the catechol binding site in dopamine D1 receptors: synthesis and evaluation of two parallel series of bicyclic dopamine analogues. <i>ChemMedChem</i> , 2011 , 6, 1024-40	3.7	17
49	Rubicolins are naturally occurring G protein-biased delta opioid receptor peptides. <i>European Neuropsychopharmacology</i> , 2019 , 29, 450-456	1.2	17
48	Combining 4D pharmacophore generation and multidimensional QSAR: modeling ligand binding to the bradykinin B2 receptor. <i>Journal of Chemical Information and Modeling</i> , 2006 , 46, 2135-45	6.1	16
47	In silico prediction of receptor-mediated environmental toxic phenomena-application to endocrine disruption. <i>SAR and QSAR in Environmental Research</i> , 2005 , 16, 149-69	3.5	16
46	Mixed-model QSAR at the glucocorticoid receptor: predicting the binding mode and affinity of psychotropic drugs. <i>ChemMedChem</i> , 2009 , 4, 100-9	3.7	15
45	Elucidating the multiple roles of hydration for accurate protein-ligand binding prediction via deep learning. <i>Communications Chemistry</i> , 2020 , 3,	6.3	14
44	Ensemble generation and the influence of protein flexibility on geometric tunnel prediction in cytochrome P450 enzymes. <i>PLoS ONE</i> , 2014 , 9, e99408	3.7	14
43	Single-molecule study of molecular mobility in the cytoplasm of Escherichia coli. <i>Physical Review E</i> , 2012 , 86, 021907	2.4	14
42	Probing the steric space at the floor of the D1 dopamine receptor orthosteric binding domain: 7E] 7E] 8E] and 8E]methyl substituted dihydrexidine analogues. <i>Journal of Medicinal Chemistry</i> , 2011 , 54, 5508-21	8.3	14
41	Single hepatitis-B virus core capsid binding to individual nuclear pore complexes in Hela cells. <i>Biophysical Journal</i> , 2006 , 91, 3123-30	2.9	13
40	Ranking protein-protein docking results using steered molecular dynamics and potential of mean force calculations. <i>Journal of Computational Chemistry</i> , 2016 , 37, 1861-5	3.5	13
39	Analysis of factors influencing hydration site prediction based on molecular dynamics simulations. <i>Journal of Chemical Information and Modeling</i> , 2014 , 54, 2987-95	6.1	12
38	Structural transitions and interactions in the early stages of human glucagon amyloid fibrillation. <i>Biophysical Journal</i> , 2015 , 108, 937-948	2.9	12
37	New computational method for prediction of interacting protein loop regions. <i>Proteins: Structure, Function and Bioinformatics</i> , 2010 , 78, 1748-59	4.2	12

36	From Crystal Structures and Their Analysis to the in silico Prediction of Toxic Phenomena. <i>Helvetica Chimica Acta</i> , 2003 , 86, 1554-1568	2	12
35	Flexibility of PCNA-protein interface accommodates differential binding partners. <i>PLoS ONE</i> , 2014 , 9, e102481	3.7	12
34	Molecular Determinants of the Differential Modulation of Ca _v 1.2 and Ca _v 1.3 by Nifedipine and FPL 64176. <i>Molecular Pharmacology</i> , 2018 , 94, 973-983	4.3	11
33	A bifunctional colchicinoid that binds to the androgen receptor. <i>Molecular Cancer Therapeutics</i> , 2007 , 6, 2328-36	6.1	11
32	Efficient and Accurate Hydration Site Profiling for Enclosed Binding Sites. <i>Journal of Chemical Information and Modeling</i> , 2018 , 58, 2183-2188	6.1	10
31	Inhibitors for Novel Coronavirus Protease Identified by Virtual Screening of 687 Million Compounds		9
30	WATsite2.0 with PyMOL Plugin: Hydration Site Prediction and Visualization. <i>Methods in Molecular Biology</i> , 2017 , 1611, 123-134	1.4	9
29	Fibpredictor: a computational method for rapid prediction of amyloid fibril structures. <i>Journal of Molecular Modeling</i> , 2016 , 22, 206	2	9
28	Optimization of a 1,3,4-oxadiazole series for inhibition of Ca/calmodulin-stimulated activity of adenylyl cyclases 1 and 8 for the treatment of chronic pain. <i>European Journal of Medicinal Chemistry</i> , 2019 , 162, 568-585	6.8	9
27	Role of computational methods in pharmaceutical sciences. <i>Methods in Molecular Biology</i> , 2012 , 929, 21-48	1.4	8
26	Analogues of doxanthrine reveal differences between the dopamine D1 receptor binding properties of chromanoisoquinolines and hexahydrobenzo[a]phenanthridines. <i>European Journal of Medicinal Chemistry</i> , 2012 , 48, 97-107	6.8	7
25	Predicting flexible loop regions that interact with ligands: the challenge of accurate scoring. <i>Proteins: Structure, Function and Bioinformatics</i> , 2012 , 80, 246-60	4.2	7
24	Modeling of Halogen-Protein Interactions in Co-Solvent Molecular Dynamics Simulations. <i>Journal of Chemical Information and Modeling</i> , 2019 , 59, 38-42	6.1	6
23	Molecular Modeling Evaluation of the Enantiomers of a Novel Adenylyl Cyclase 2 Inhibitor. <i>Journal of Chemical Information and Modeling</i> , 2017 , 57, 322-334	6.1	5
22	Virtual test kits for predicting harmful effects triggered by drugs and chemicals mediated by specific proteins. <i>ALTEX: Alternatives To Animal Experimentation</i> , 2005 , 22, 123-34	4.3	5
21	Improving Atom-Type Diversity and Sampling in Cosolvent Simulations Using EDynamics. <i>Journal of Chemical Theory and Computation</i> , 2019 , 15, 3272-3287	6.4	4
20	Confined Mobility of TonB and FepA in Escherichia coli Membranes. <i>PLoS ONE</i> , 2016 , 11, e0160862	3.7	4
19	Computational Assessment of Combination Therapy of Androgen Receptor-Targeting Compounds. <i>Journal of Chemical Information and Modeling</i> , 2021 , 61, 1001-1009	6.1	4

18	Discovery of Inhibitors for Proliferating Cell Nuclear Antigen Using a Computational-Based Linked-Multiple-Fragment Screen. <i>ACS Omega</i> , 2019 , 4, 15181-15196	3.9	3
17	Calculation of Thermodynamic Properties of Bound Water Molecules. <i>Methods in Molecular Biology</i> , 2018 , 1762, 389-402	1.4	3
16	In Silico Drug Discovery and Design 2013 ,		3
15	Are distance-dependent statistical potentials considering three interacting bodies superior to two-body statistical potentials for protein structure prediction?. <i>Journal of Bioinformatics and Computational Biology</i> , 2014 , 12, 1450022	1	3
14	Multi-Dimensional QSAR in Drug Discovery: Probing Ligand Alignment and Induced Fit - Application to GPCRs and Nuclear Receptors. <i>Current Computer-Aided Drug Design</i> , 2005 , 1, 307-324	1.4	3
13	Dissecting the Influence of Protein Flexibility on the Location and Thermodynamic Profile of Explicit Water Molecules in Protein-Ligand Binding. <i>Journal of Chemical Theory and Computation</i> , 2016 , 12, 4578-92	6.4	3
12	Conformational Changes of Thyroid Receptors in Response to Antagonists. <i>Journal of Chemical Information and Modeling</i> , 2021 , 61, 1010-1019	6.1	3
11	Potential Inhibitors for Novel Coronavirus Protease Identified by Virtual Screening of 606 Million Compounds	2	
10	Application of information theory to a three-body coarse-grained representation of proteins in the PDB: insights into the structural and evolutionary roles of residues in protein structure. <i>Proteins: Structure, Function and Bioinformatics</i> , 2014 , 82, 3450-65	4.2	1
9	Towards a Realistic Representation in Surface-Based Pseudoreceptor Modeling: a PDB-Wide Analysis of Binding Pockets. <i>Molecular Informatics</i> , 2012 , 31, 259-71	3.8	1
8	Computational Modeling of Receptor-Mediated Toxicity	315-351	1
7	Evaluation of Xa inhibitors as potential inhibitors of the SARS-CoV-2 Mpro protease.. <i>PLoS ONE</i> , 2022 , 17, e0262482	3.7	1
6	Computational Selectivity Assessment of Protease Inhibitors against SARS-CoV-2. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	1
5	Internet laboratory for predicting harmful effects triggered by drugs and chemicals--a progress report. <i>ALTEX: Alternatives To Animal Experimentation</i> , 2003 , 20, 85-91	4.3	1
4	Integrating structure-and ligand-based approaches for computer-aided drug design 2013 , 190-202		
3	Ligand pathways in estrogen-related receptors.. <i>Journal of Biomolecular Structure and Dynamics</i> , 2022 , 1-10	3.6	
2	Computer Simulation Meets Molecular Biology 2003 , 87-98		
1	Docking 3-phenyltropane analogs into an ensemble of serotonin transporter homology model conformations. <i>FASEB Journal</i> , 2011 , 25, 1083.2	0.9	

