

Markus A Lill

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.

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	Ligand pathways in estrogen-related receptors.. <i>Journal of Biomolecular Structure and Dynamics</i> , 2022 , 1-10	3.6	
88	Evaluation of Xa inhibitors as potential inhibitors of the SARS-CoV-2 Mpro protease.. <i>PLoS ONE</i> , 2022 , 17, e0262482	3.7	1
87	Conformational Changes of Thyroid Receptors in Response to Antagonists. <i>Journal of Chemical Information and Modeling</i> , 2021 , 61, 1010-1019	6.1	3
86	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
85	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
84	Computational Selectivity Assessment of Protease Inhibitors against SARS-CoV-2. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	1
83	Elucidating the multiple roles of hydration for accurate protein-ligand binding prediction via deep learning. <i>Communications Chemistry</i> , 2020 , 3,	6.3	14
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	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
80	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
79	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
78	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
77	Rubicolins are naturally occurring G protein-biased delta opioid receptor peptides. <i>European Neuropsychopharmacology</i> , 2019 , 29, 450-456	1.2	17
76	Calculation of Thermodynamic Properties of Bound Water Molecules. <i>Methods in Molecular Biology</i> , 2018 , 1762, 389-402	1.4	3
75	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
74	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
73	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

72	WATsite2.0 with PyMOL Plugin: Hydration Site Prediction and Visualization. <i>Methods in Molecular Biology</i> , 2017 , 1611, 123-134	1.4	9
71	Confined Mobility of TonB and FepA in Escherichia coli Membranes. <i>PLoS ONE</i> , 2016 , 11, e0160862	3.7	4
70	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
69	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
68	Fibpredictor: a computational method for rapid prediction of amyloid fibril structures. <i>Journal of Molecular Modeling</i> , 2016 , 22, 206	2	9
67	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
66	Structural transitions and interactions in the early stages of human glucagon amyloid fibrillation. <i>Biophysical Journal</i> , 2015 , 108, 937-948	2.9	12
65	Substrate tunnels in enzymes: structure-function relationships and computational methodology. <i>Proteins: Structure, Function and Bioinformatics</i> , 2015 , 83, 599-611	4.2	77
64	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
63	Including ligand-induced protein flexibility into protein tunnel prediction. <i>Journal of Computational Chemistry</i> , 2014 , 35, 1748-56	3.5	25
62	PharmDock: a pharmacophore-based docking program. <i>Journal of Cheminformatics</i> , 2014 , 6, 14	8.6	31
61	WATsite: hydration site prediction program with PyMOL interface. <i>Journal of Computational Chemistry</i> , 2014 , 35, 1255-60	3.5	51
60	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
59	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
58	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
57	Flexibility of PCNA-protein interface accommodates differential binding partners. <i>PLoS ONE</i> , 2014 , 9, e102481	3.7	12
56	In Silico Drug Discovery and Design 2013 ,		3
55	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

54	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
53	Virtual screening in drug design. <i>Methods in Molecular Biology</i> , 2013 , 993, 1-12	1.4	37
52	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
51	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
50	Integrating structure-and ligand-based approaches for computer-aided drug design 2013 , 190-202		
49	Metrics for measuring distances in configuration spaces. <i>Journal of Chemical Physics</i> , 2013 , 139, 184118	3.9	96
48	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
47	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
46	Protein pharmacophore selection using hydration-site analysis. <i>Journal of Chemical Information and Modeling</i> , 2012 , 52, 1046-60	6.1	33
45	Single-molecule study of molecular mobility in the cytoplasm of Escherichia coli. <i>Physical Review E</i> , 2012 , 86, 021907	2.4	14
44	Role of computational methods in pharmaceutical sciences. <i>Methods in Molecular Biology</i> , 2012 , 929, 21-48	1.4	8
43	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
42	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
41	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
40	Efficient incorporation of protein flexibility and dynamics into molecular docking simulations. <i>Biochemistry</i> , 2011 , 50, 6157-69	3.2	78
39	Integrating structure-based and ligand-based approaches for computational drug design. <i>Future Medicinal Chemistry</i> , 2011 , 3, 735-50	4.1	101
38	Computer-aided drug design platform using PyMOL. <i>Journal of Computer-Aided Molecular Design</i> , 2011 , 25, 13-9	4.2	278
37	Mapping the catechol binding site in dopamine D ₁ receptors: synthesis and evaluation of two parallel series of bicyclic dopamine analogues. <i>ChemMedChem</i> , 2011 , 6, 1024-40	3.7	17

36	Probing the steric space at the floor of the D1 dopamine receptor orthosteric binding domain: 7E, 7F, 8E and 8F-methyl substituted dihydrexidine analogues. <i>Journal of Medicinal Chemistry</i> , 2011 , 54, 5508-21	8.3	14
35	Significant enhancement of docking sensitivity using implicit ligand sampling. <i>Journal of Chemical Information and Modeling</i> , 2011 , 51, 693-706	6.1	23
34	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
33	Docking 3-phenyltropane analogs into an ensemble of serotonin transporter homology model conformations. <i>FASEB Journal</i> , 2011 , 25, 1083.2	0.9	
32	New computational method for prediction of interacting protein loop regions. <i>Proteins: Structure, Function and Bioinformatics</i> , 2010 , 78, 1748-59	4.2	12
31	Challenges predicting ligand-receptor interactions of promiscuous proteins: the nuclear receptor PXR. <i>PLoS Computational Biology</i> , 2009 , 5, e1000594	5	94
30	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
29	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
28	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
27	Multi-dimensional QSAR in drug discovery. <i>Drug Discovery Today</i> , 2007 , 12, 1013-7	8.8	116
26	A bifunctional colchicinoid that binds to the androgen receptor. <i>Molecular Cancer Therapeutics</i> , 2007 , 6, 2328-36	6.1	11
25	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
24	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
23	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
22	The challenge of predicting drug toxicity in silico. <i>Basic and Clinical Pharmacology and Toxicology</i> , 2006 , 99, 195-208	3.1	59
21	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
20	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
19	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

18	In silico prediction of harmful effects triggered by drugs and chemicals. <i>Toxicology and Applied Pharmacology</i> , 2005 , 207, 398-407	4.6	21
17	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
16	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
15	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
14	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
13	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
12	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
11	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
10	Computer Simulation Meets Molecular Biology 2003 , 87-98		
9	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
8	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
7	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
6	Compact parameter set for fast estimation of proton transfer rates. <i>Journal of Chemical Physics</i> , 2001 , 114, 1125-1132	3.9	33
5	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
4	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
3	Computational Modeling of Receptor-Mediated Toxicity 315-351		1
2	Potential Inhibitors for Novel Coronavirus Protease Identified by Virtual Screening of 606 Million Compounds		2
1	Inhibitors for Novel Coronavirus Protease Identified by Virtual Screening of 687 Million Compounds		9

