

# Michael J E Sternberg

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3297982/publications.pdf>

Version: 2024-02-01

69  
papers

16,346  
citations

172207

29  
h-index

114278

63  
g-index

82  
all docs

82  
docs citations

82  
times ranked

31785  
citing authors

#	ARTICLE	IF	CITATIONS
1	The Phyre2 web portal for protein modeling, prediction and analysis. <i>Nature Protocols</i> , 2015, 10, 845-858.	5.5	8,366
2	Protein structure prediction on the Web: a case study using the Phyre server. <i>Nature Protocols</i> , 2009, 4, 363-371.	5.5	3,815
3	3DLigandSite: predicting ligand-binding sites using similar structures. <i>Nucleic Acids Research</i> , 2010, 38, W469-W473.	6.5	549
4	A Highly Conserved Program of Neuronal Microexons Is Misregulated in Autistic Brains. <i>Cell</i> , 2014, 159, 1511-1523.	13.5	546
5	Can Predicted Protein 3D Structures Provide Reliable Insights into whether Missense Variants Are Disease Associated?. <i>Journal of Molecular Biology</i> , 2019, 431, 2197-2212.	2.0	344
6	ePlant: Visualizing and Exploring Multiple Levels of Data for Hypothesis Generation in Plant Biology. <i>Plant Cell</i> , 2017, 29, 1806-1821.	3.1	316
7	An expanded evaluation of protein function prediction methods shows an improvement in accuracy. <i>Genome Biology</i> , 2016, 17, 184.	3.8	308
8	SuSPect: Enhanced Prediction of Single Amino Acid Variant (SAV) Phenotype Using Network Features. <i>Journal of Molecular Biology</i> , 2014, 426, 2692-2701.	2.0	189
9	EzMol: A Web Server Wizard for the Rapid Visualization and Image Production of Protein and Nucleic Acid Structures. <i>Journal of Molecular Biology</i> , 2018, 430, 2244-2248.	2.0	145
10	The AlphaFold Database of Protein Structures: A Biologist's Guide. <i>Journal of Molecular Biology</i> , 2022, 434, 167336.	2.0	126
11	The Contribution of Missense Mutations in Core and Rim Residues of Protein-Protein Interfaces to Human Disease. <i>Journal of Molecular Biology</i> , 2015, 427, 2886-2898.	2.0	105
12	Similarity in membrane proteins. <i>Nature</i> , 1989, 342, 624-624.	13.7	90
13	Structure-based prediction of protein allostery. <i>Current Opinion in Structural Biology</i> , 2018, 50, 1-8.	2.6	90
14	AlloPred: prediction of allosteric pockets on proteins using normal mode perturbation analysis. <i>BMC Bioinformatics</i> , 2015, 16, 335.	1.2	88
15	Protein Folding Requires Crowd Control in a Simulated Cell. <i>Journal of Molecular Biology</i> , 2010, 397, 1329-1338.	2.0	76
16	Structural Characterization of the Human Proteome. <i>Genome Research</i> , 2002, 12, 1625-1641.	2.4	66
17	Relating chemical activity to structure: An examination of ILP successes. <i>New Generation Computing</i> , 1995, 13, 411-433.	2.5	65
18	ArchDB: automated protein loop classification as a tool for structural genomics. <i>Nucleic Acids Research</i> , 2004, 32, 185D-188.	6.5	61

#	ARTICLE	IF	CITATIONS
19	Quantitative structure-activity relationships by neural networks and inductive logic programming. II. The inhibition of dihydrofolate reductase by triazines. <i>Journal of Computer-Aided Molecular Design</i> , 1994, 8, 421-432.	1.3	55
20	Genome3D: a UK collaborative project to annotate genomic sequences with predicted 3D structures based on SCOP and CATH domains. <i>Nucleic Acids Research</i> , 2012, 41, D499-D507.	6.5	53
21	k-SLAM: accurate and ultra-fast taxonomic classification and gene identification for large metagenomic data sets. <i>Nucleic Acids Research</i> , 2017, 45, gkw1248.	6.5	50
22	Thienopyrimidinone Based Sirtuin-2 (SIRT2)-Selective Inhibitors Bind in the Ligand Induced Selectivity Pocket. <i>Journal of Medicinal Chemistry</i> , 2017, 60, 1928-1945.	2.9	49
23	Predicting Protein Dynamics and Allostery Using Multi-Protein Atomic Distance Constraints. <i>Structure</i> , 2017, 25, 546-558.	1.6	45
24	Genome3D: exploiting structure to help users understand their sequences. <i>Nucleic Acids Research</i> , 2015, 43, D382-D386.	6.5	42
25	In Silico Analysis of the Small Molecule Content of Outer Membrane Vesicles Produced by <i>Bacteroides thetaiotaomicron</i> Indicates an Extensive Metabolic Link between Microbe and Host. <i>Frontiers in Microbiology</i> , 2017, 8, 2440.	1.5	42
26	Support vector inductive logic programming outperforms the naive Bayes classifier and inductive logic programming for the classification of bioactive chemical compounds. <i>Journal of Computer-Aided Molecular Design</i> , 2007, 21, 269-280.	1.3	40
27	Missense3D-DB web catalogue: an atom-based analysis and repository of 4M human protein-coding genetic variants. <i>Human Genetics</i> , 2021, 140, 805-812.	1.8	39
28	Protein surface area defined. <i>Nature</i> , 1993, 366, 638-638.	18.7	35
29	COMPARISON OF ARTIFICIAL INTELLIGENCE METHODS FOR MODELING PHARMACEUTICAL QSARS. <i>Applied Artificial Intelligence</i> , 1995, 9, 213-233.	2.0	30
30	PhenoRank: reducing study bias in gene prioritization through simulation. <i>Bioinformatics</i> , 2018, 34, 2087-2095.	1.8	30
31	A general approach for developing system-specific functions to score protein-ligand docked complexes using support vector inductive logic programming. <i>Proteins: Structure, Function and Bioinformatics</i> , 2007, 69, 823-831.	1.5	29
32	Recognition of remote protein homologies using three-dimensional information to generate a position specific scoring matrix in the program 3D-PSSM. , 1999, , .		27
33	New approaches to QSAR: Neural networks and machine learning. <i>Journal of Computer - Aided Molecular Design</i> , 1993, 1, 279-290.	1.0	26
34	Landscape of Pleiotropic Proteins Causing Human Disease: Structural and System Biology Insights. <i>Human Mutation</i> , 2017, 38, 289-296.	1.1	26
35	3DLigandSite: structure-based prediction of protein-ligand binding sites. <i>Nucleic Acids Research</i> , 2022, 50, W13-W20.	6.5	25
36	The Automatic Discovery of Structural Principles Describing Protein Fold Space. <i>Journal of Molecular Biology</i> , 2003, 330, 839-850.	2.0	22

#	ARTICLE	IF	CITATIONS
37	Application of docking methodologies to modeled proteins. <i>Proteins: Structure, Function and Bioinformatics</i> , 2020, 88, 1180-1188.	1.5	22
38	Prediction of the conformation and geometry of loops in globular proteins: Testing ArchDB, a structural classification of loops. <i>Proteins: Structure, Function and Bioinformatics</i> , 2005, 60, 746-757.	1.5	21
39	PhyreRisk: A Dynamic Web Application to Bridge Genomics, Proteomics and 3D Structural Data to Guide Interpretation of Human Genetic Variants. <i>Journal of Molecular Biology</i> , 2019, 431, 2460-2466.	2.0	21
40	Gene Function Hypotheses for the <i>Campylobacter jejuni</i> Glycome Generated by a Logic-Based Approach. <i>Journal of Molecular Biology</i> , 2013, 425, 186-197.	2.0	20
41	Application of inductive logic programming to discover rules governing the three-dimensional topology of protein structure. <i>Lecture Notes in Computer Science</i> , 1998, , 53-64.	1.0	18
42	The proteome: structure, function and evolution. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2006, 361, 441-451.	1.8	18
43	PhyreStorm: A Web Server for Fast Structural Searches Against the PDB. <i>Journal of Molecular Biology</i> , 2016, 428, 702-708.	2.0	15
44	Phylotranscriptomic Insights into the Diversification of Endothermic <i>Thunnus</i> Tunas. <i>Molecular Biology and Evolution</i> , 2019, 36, 84-96.	3.5	15
45	3D-GENOMICS: a database to compare structural and functional annotations of proteins between sequenced genomes. <i>Nucleic Acids Research</i> , 2004, 32, 245D-250.	6.5	14
46	Exploring the cellular basis of human disease through a large-scale mapping of deleterious genes to cell types. <i>Genome Medicine</i> , 2015, 7, 95.	3.6	13
47	Properties of human genes guided by their enrichment in rare and common variants. <i>Human Mutation</i> , 2018, 39, 365-370.	1.1	13
48	Genome3D: integrating a collaborative data pipeline to expand the depth and breadth of consensus protein structure annotation. <i>Nucleic Acids Research</i> , 2020, 48, D314-D319.	6.5	13
49	Library of common protein motifs. <i>Nature</i> , 1991, 349, 111-111.	13.7	12
50	Clustering of Protein Domains in the Human Genome. <i>Journal of Molecular Biology</i> , 2004, 340, 991-1004.	2.0	12
51	Partial protein domains: evolutionary insights and bioinformatics challenges. <i>Genome Biology</i> , 2015, 16, 100.	3.8	10
52	Identification of disease-associated loci using machine learning for genotype and network data integration. <i>Bioinformatics</i> , 2019, 35, 5182-5190.	1.8	7
53	A polygenic biomarker to identify patients with severe hypercholesterolemia of polygenic origin. <i>Molecular Genetics &amp; Genomic Medicine</i> , 2020, 8, e1248.	0.6	5
54	The fine details of evolution. <i>Biochemical Society Transactions</i> , 2009, 37, 723-726.	1.6	3

#	ARTICLE	IF	CITATIONS
55	The Genome3D Consortium for Structural Annotations of Selected Model Organisms. <i>Methods in Molecular Biology</i> , 2020, 2165, 27-67.	0.4	3
56	A Common <i>TMPRSS2</i> Variant Protects Against Severe COVID-19. <i>SSRN Electronic Journal</i> , 0, , .	0.4	2
57	Multi-class Prediction Using Stochastic Logic Programs. <i>Lecture Notes in Computer Science</i> , 2006, , 109-124.	1.0	2
58	Computational Resources for Molecular Biology 2022. <i>Journal of Molecular Biology</i> , 2022, 434, 167625.	2.0	2
59	Protein Fold Discovery Using Stochastic Logic Programs. <i>Lecture Notes in Computer Science</i> , 2008, , 244-262.	1.0	1
60	Variation of Background Knowledge in an Industrial Application of ILP. <i>Lecture Notes in Computer Science</i> , 2011, , 158-170.	1.0	1
61	Does Multi-Clause Learning Help in Real-World Applications?. <i>Lecture Notes in Computer Science</i> , 2012, , 221-237.	1.0	1
62	Including Functional Annotations and Extending the Collection of Structural Classifications of Protein Loops (ArchDB). <i>Bioinformatics and Biology Insights</i> , 2009, 1, 77-90.	1.0	1
63	Computation Resources for Molecular Biology: A Special Issue. <i>Journal of Molecular Biology</i> , 2016, 428, 669-670.	2.0	0
64	Computation Resources for Molecular Biology: Special Issue 2017. <i>Journal of Molecular Biology</i> , 2017, 429, 345-347.	2.0	0
65	Computation Resources for Molecular Biology: Special Issue 2018. <i>Journal of Molecular Biology</i> , 2018, 430, 2181-2183.	2.0	0
66	Computation Resources for Molecular Biology: Special Issue 2019. <i>Journal of Molecular Biology</i> , 2019, 431, 2395-2397.	2.0	0
67	Computational Resources for Molecular Biology: Special Issue 2020. <i>Journal of Molecular Biology</i> , 2020, 432, 3361-3363.	2.0	0
68	Computational Resources for Molecular Biology 2021. <i>Journal of Molecular Biology</i> , 2021, 433, 166962.	2.0	0
69	Recent Developments in Applying Machine Learning to Drug Design. , 1998, , 151-162.		0