

Marcio Dorn

List of Publications by Year in descending order

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Version: 2024-02-01

70
papers

788
citations

623574

14
h-index

580701

25
g-index

72
all docs

72
docs citations

72
times ranked

736
citing authors

#	ARTICLE	IF	CITATIONS
1	Three-dimensional protein structure prediction: Methods and computational strategies. <i>Computational Biology and Chemistry</i> , 2014, 53, 251-276.	1.1	160
2	CuMiDa: An Extensively Curated Microarray Database for Benchmarking and Testing of Machine Learning Approaches in Cancer Research. <i>Journal of Computational Biology</i> , 2019, 26, 376-386.	0.8	46
3	Aromatic Rings Commonly Used in Medicinal Chemistry: Force Fields Comparison and Interactions With Water Toward the Design of New Chemical Entities. <i>Frontiers in Pharmacology</i> , 2018, 9, 395.	1.6	40
4	APL: An angle probability list to improve knowledge-based metaheuristics for the three-dimensional protein structure prediction. <i>Computational Biology and Chemistry</i> , 2015, 59, 142-157.	1.1	38
5	Hemogram data as a tool for decision-making in COVID-19 management: applications to resource scarcity scenarios. <i>PeerJ</i> , 2020, 8, e9482.	0.9	32
6	A GMDH polynomial neural network-based method to predict approximate three-dimensional structures of polypeptides. <i>Expert Systems With Applications</i> , 2012, 39, 12268-12279.	4.4	29
7	Neuroevolution as a tool for microarray gene expression pattern identification in cancer research. <i>Journal of Biomedical Informatics</i> , 2019, 89, 122-133.	2.5	27
8	The tale of a versatile enzyme: Alpha-amylase evolution, structure, and potential biotechnological applications for the bioremediation of n-alkanes. <i>Chemosphere</i> , 2020, 250, 126202.	4.2	25
9	A Memetic Algorithm for 3D Protein Structure Prediction Problem. <i>IEEE/ACM Transactions on Computational Biology and Bioinformatics</i> , 2018, 15, 690-704.	1.9	24
10	A Memetic Algorithm Based on an NSGA-II Scheme for Phylogenetic Tree Inference. <i>IEEE Transactions on Evolutionary Computation</i> , 2019, 23, 776-787.	7.5	22
11	NIAS-Server: Neighbors Influence of Amino acids and Secondary Structures in Proteins. <i>Journal of Computational Biology</i> , 2017, 24, 255-265.	0.8	19
12	Three-dimensional protein structure prediction based on memetic algorithms. <i>Computers and Operations Research</i> , 2018, 91, 160-177.	2.4	18
13	Relevance aggregation for neural networks interpretability and knowledge discovery on tabular data. <i>Information Sciences</i> , 2021, 559, 111-129.	4.0	18
14	A multi-objective gene clustering algorithm guided by apriori biological knowledge with intensification and diversification strategies. <i>BioData Mining</i> , 2018, 11, 16.	2.2	17
15	Evaluation of drug repositioning by molecular docking of pharmaceutical resources available in the Brazilian healthcare system against SARS-CoV-2. <i>Informatics in Medicine Unlocked</i> , 2021, 23, 100539.	1.9	15
16	Multi-Approach Bioinformatics Analysis of Curated Omics Data Provides a Gene Expression Panorama for Multiple Cancer Types. <i>Frontiers in Genetics</i> , 2020, 11, 586602.	1.1	14
17	A3N: An artificial neural network n-gram-based method to approximate 3-D polypeptides structure prediction. <i>Expert Systems With Applications</i> , 2010, 37, 7497-7508.	4.4	13
18	A multi-population memetic algorithm for the 3-D protein structure prediction problem. <i>Swarm and Evolutionary Computation</i> , 2020, 55, 100677.	4.5	13

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19	Conformational changes in 2-trans-enoyl-ACP (CoA) reductase (InhA) from M. tuberculosis induced by an inorganic complex: a molecular dynamics simulation study. <i>Journal of Molecular Modeling</i> , 2012, 18, 1779-1790.	0.8	12
20	Clustering Nodes in Large-Scale Biological Networks Using External Memory Algorithms. <i>Lecture Notes in Computer Science</i> , 2011, , 375-386.	1.0	12
21	CReF. , 2008, , .		11
22	Mining the Protein Data Bank with CReF to predict approximate 3-D structures of polypeptides. <i>International Journal of Data Mining and Bioinformatics</i> , 2010, 4, 281.	0.1	10
23	A biased random key genetic algorithm for the proteinâ€“ligand docking problem. <i>Soft Computing</i> , 2019, 23, 4155-4176.	2.1	10
24	Comparison of machine learning techniques to handle imbalanced COVID-19 CBC datasets. <i>PeerJ Computer Science</i> , 2021, 7, e670.	2.7	10
25	A Study on Shape-Dependent Settling of Single Particles with Equal Volume Using Surface Resolved Simulations. <i>Computation</i> , 2021, 9, 40.	1.0	9
26	A Hybrid Method for the Protein Structure Prediction Problem. <i>Lecture Notes in Computer Science</i> , 2008, , 47-56.	1.0	9
27	A hybrid genetic algorithm for the 3-D protein structure prediction problem using a path-relinking strategy. , 2011, , .		8
28	SADE-SPL: A Self-Adapting Differential Evolution algorithm with a loop Structure Pattern Library for the PSP problem. , 2017, , .		7
29	Everyone Is a Protagonist: Residue Conformational Preferences in High-Resolution Protein Structures. <i>Journal of Computational Biology</i> , 2018, 25, 451-465.	0.8	7
30	Perspectives and applications of machine learning for evolutionary developmental biology. <i>Molecular Omics</i> , 2018, 14, 289-306.	1.4	7
31	A Knowledge Based Self-Adaptive Differential Evolution Algorithm for Protein Structure Prediction. <i>Lecture Notes in Computer Science</i> , 2019, , 87-100.	1.0	7
32	Development of GROMOS-Compatible Parameter Set for Simulations of Chalcones and Flavonoids. <i>Journal of Physical Chemistry B</i> , 2019, 123, 994-1008.	1.2	7
33	Benchmarking and Testing Machine Learning Approaches with BARRA:CuRDa, a Curated RNA-Seq Database for Cancer Research. <i>Journal of Computational Biology</i> , 2021, 28, 931-944.	0.8	7
34	A knowledge-based genetic algorithm to predict three-dimensional structures of polypeptides. , 2013, , .		5
35	NEAT-FLEX: Predicting the conformational flexibility of amino acids using neuroevolution of augmenting topologies. <i>Journal of Bioinformatics and Computational Biology</i> , 2017, 15, 1750009.	0.3	5
36	Understanding the Relationship Between Decision and Objective Space in the Multi-Objective Phylogenetic Inference Problem. , 2018, , .		4

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37	A Multi-objective Swarm-Based Algorithm for the Prediction of Protein Structures. Lecture Notes in Computer Science, 2019, , 101-115.	1.0	4
38	Feature selection reveal peripheral blood parameter's changes between COVID-19 infections patients from Brazil and Ecuador. Infection, Genetics and Evolution, 2022, 98, 105228.	1.0	4
39	A cluster-DEE-based strategy to empower protein design. Expert Systems With Applications, 2013, 40, 5210-5218.	4.4	3
40	MOIRAE: A computational strategy to extract and represent structural information from experimental protein templates. Soft Computing, 2014, 18, 773-795.	2.1	3
41	D-BRKGGA: A Distributed Biased Random-Key Genetic Algorithm. , 2017, , .		3
42	Evaluating the use of local search strategies for a memetic algorithm for the protein-ligand docking problem. , 2017, , .		3
43	Performance Comparison of Multi-Objective Local Search Strategies to Infer Phylogenetic Trees. , 2018, , .		3
44	A Self-adaptive Local Search Coordination in Multimeme Memetic Algorithm for Molecular Docking. Lecture Notes in Computer Science, 2019, , 145-159.	1.0	3
45	Solving fluid flow domain identification problems with adjoint lattice Boltzmann methods. Computers and Mathematics With Applications, 2020, 79, 17-33.	1.4	3
46	ConfID: an analytical method for conformational characterization of small molecules using molecular dynamics trajectories. Bioinformatics, 2020, 36, 3576-3577.	1.8	3
47	Exploring the high selectivity of 3-D protein structures using distributed memetic algorithms. Journal of Computational Science, 2020, 41, 101087.	1.5	3
48	Multi-Agent Systems in Three-Dimensional Protein Structure Prediction. Advances in Computational Intelligence and Robotics Book Series, 2017, , 241-278.	0.4	3
49	Parallel Verified Linear System Solver for Uncertain Input Data. , 2008, , .		2
50	Hardware implementation of GMDH-type artificial neural networks and its use to predict approximate three-dimensional structures of proteins. , 2012, , .		2
51	A molecular dynamics and knowledge-based computational strategy to predict native-like structures of polypeptides. Expert Systems With Applications, 2013, 40, 698-706.	4.4	2
52	A Memetic Algorithm for Protein Structure Prediction based on Conformational Preferences of Aminoacid Residues. , 2015, , .		2
53	An evolutionary multi-agent algorithm to explore the high degree of selectivity in three-dimensional protein structures. , 2017, , .		2
54	Microarray Classification and Gene Selection with FS-NEAT. , 2018, , .		2

#	ARTICLE	IF	CITATIONS
55	A Knowledge-Based Artificial Bee Colony Algorithm for the 3-D Protein Structure Prediction Problem. , 2018, , .		2
56	A Genetic Algorithm Based on Restricted Tournament Selection for the 3D-PSP Problem. , 2018, , .		2
57	Multi-Objective Differential Evolution Algorithms for the Protein Structure Prediction Problem. , 2020, , .		2
58	Modifying the catalytic preference of alpha-amylose toward <i>n</i> -alkanes for bioremediation purposes using <i>in silico</i> strategies. Journal of Computational Chemistry, 2021, 42, 1540-1551.	1.5	2
59	An interval-based algorithm to represent conformational states of experimentally determined polypeptide templates and fast prediction of approximated 3D protein structures. International Journal of Bioinformatics Research and Applications, 2013, 9, 462.	0.1	1
60	Evaluation of a combined energy fitness function for a distributed memetic algorithm to tackle the 3D protein structure prediction problem. , 2016, , .		1
61	Improving protein tertiary structure prediction with conformational propensities of amino acid residues. , 2016, , .		1
62	Using local search strategies to improve the performance of NSGA-II for the Multi-Criteria Minimum Spanning Tree problem. , 2017, , .		1
63	A Biased Random Key Genetic Algorithm with Local Search Chains for Molecular Docking. Lecture Notes in Computer Science, 2019, , 360-376.	1.0	1
64	Rosetta Ligand-Protein Docking with Self-Adaptive Differential Evolution. , 2019, , .		1
65	Differential Evolution Multi-Objective for Tertiary Protein Structure Prediction. Lecture Notes in Computer Science, 2020, , 165-180.	1.0	1
66	A dynamic evolutionary multi-agent system to predict the 3D structure of proteins. , 2020, , .		1
67	Predicting protein structural features with NeuroEvolution of Augmenting Topologies. , 2016, , .		0
68	Determining the Conformational Flexibility of Disaccharides with an Adaptive Differential Evolution Approach. , 2020, , .		0
69	Evaluating the Success-History Based Adaptive Differential Evolution in the Protein Structure Prediction Problem. Lecture Notes in Computer Science, 2021, , 194-209.	1.0	0
70	Gene Expression Variation Analysis (GEVA): A new R package to evaluate variations in differential expression in multiple biological conditions. Journal of Biomedical Informatics, 2022, 129, 104053.	2.5	0