

Yaohang Li

List of Publications by Year in descending order

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134
papers

6,123
citations

87888

38
h-index

82547

72
g-index

135
all docs

135
docs citations

135
times ranked

4232
citing authors

#	ARTICLE	IF	CITATIONS
1	CytoNCA: A cytoscape plugin for centrality analysis and evaluation of protein interaction networks. <i>BioSystems</i> , 2015, 127, 67-72.	2.0	813
2	Drug repositioning based on comprehensive similarity measures and Bi-Random walk algorithm. <i>Bioinformatics</i> , 2016, 32, 2664-2671.	4.1	311
3	Identification of Essential Proteins Based on Edge Clustering Coefficient. <i>IEEE/ACM Transactions on Computational Biology and Bioinformatics</i> , 2012, 9, 1070-1080.	3.0	254
4	Prediction of lncRNA-disease associations based on inductive matrix completion. <i>Bioinformatics</i> , 2018, 34, 3357-3364.	4.1	227
5	A new essential protein discovery method based on the integration of protein-protein interaction and gene expression data. <i>BMC Systems Biology</i> , 2012, 6, 15.	3.0	211
6	Applications of deep learning to MRI images: A survey. <i>Big Data Mining and Analytics</i> , 2018, 1, 1-18.	8.9	195
7	Computational drug repositioning using low-rank matrix approximation and randomized algorithms. <i>Bioinformatics</i> , 2018, 34, 1904-1912.	4.1	183
8	LDAP: a web server for lncRNA-disease association prediction. <i>Bioinformatics</i> , 2017, 33, 458-460.	4.1	182
9	Protein-protein interaction site prediction through combining local and global features with deep neural networks. <i>Bioinformatics</i> , 2020, 36, 1114-1120.	4.1	157
10	A local average connectivity-based method for identifying essential proteins from the network level. <i>Computational Biology and Chemistry</i> , 2011, 35, 143-150.	2.3	152
11	Construction and application of dynamic protein interaction network based on time course gene expression data. <i>Proteomics</i> , 2013, 13, 301-312.	2.2	141
12	Drug repositioning based on bounded nuclear norm regularization. <i>Bioinformatics</i> , 2019, 35, i455-i463.	4.1	116
13	Biomedical data and computational models for drug repositioning: a comprehensive review. <i>Briefings in Bioinformatics</i> , 2021, 22, 1604-1619.	6.5	110
14	A comparison of the functional modules identified from time course and static PPI network data. <i>BMC Bioinformatics</i> , 2011, 12, 339.	2.6	103
15	A survey of matrix completion methods for recommendation systems. <i>Big Data Mining and Analytics</i> , 2018, 1, 308-323.	8.9	92
16	CytoCluster: A Cytoscape Plugin for Cluster Analysis and Visualization of Biological Networks. <i>International Journal of Molecular Sciences</i> , 2017, 18, 1880.	4.1	90
17	Network-based methods for predicting essential genes or proteins: a survey. <i>Briefings in Bioinformatics</i> , 2020, 21, 566-583.	6.5	90
18	Effective identification of essential proteins based on priori knowledge, network topology and gene expressions. <i>Methods</i> , 2014, 67, 325-333.	3.8	89

#	ARTICLE	IF	CITATIONS
19	A Topology Potential-Based Method for Identifying Essential Proteins from PPI Networks. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2015, 12, 372-383.	3.0	88
20	Predicting drug-target interaction using positive-unlabeled learning. Neurocomputing, 2016, 206, 50-57.	5.9	83
21	Clinical big data and deep learning: Applications, challenges, and future outlooks. Big Data Mining and Analytics, 2019, 2, 288-305.	8.9	82
22	Automatic ICD-9 coding via deep transfer learning. Neurocomputing, 2019, 324, 43-50.	5.9	79
23	Automated ICD-9 Coding via A Deep Learning Approach. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2019, 16, 1193-1202.	3.0	78
24	DeepFunc: A Deep Learning Framework for Accurate Prediction of Protein Functions from Protein Sequences and Interactions. Proteomics, 2019, 19, e1900019.	2.2	72
25	DeepDSC: A Deep Learning Method to Predict Drug Sensitivity of Cancer Cell Lines. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2021, 18, 575-582.	3.0	67
26	Predicting essential proteins based on subcellular localization, orthology and PPI networks. BMC Bioinformatics, 2016, 17, 279.	2.6	66
27	A deep learning framework for identifying essential proteins by integrating multiple types of biological information. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2019, 18, 1-1.	3.0	65
28	Identifying At-Risk Students for Early Interventions – A Time-Series Clustering Approach. IEEE Transactions on Emerging Topics in Computing, 2017, 5, 45-55.	4.6	62
29	SDLDA: lncRNA-disease association prediction based on singular value decomposition and deep learning. Methods, 2020, 179, 73-80.	3.8	61
30	Prediction of Essential Proteins Based on Overlapping Essential Modules. IEEE Transactions on Nanobioscience, 2014, 13, 415-424.	3.3	60
31	RCD+: Fast loop modeling server. Nucleic Acids Research, 2016, 44, W395-W400.	14.5	54
32	Context-Based Features Enhance Protein Secondary Structure Prediction Accuracy. Journal of Chemical Information and Modeling, 2014, 54, 992-1002.	5.4	52
33	United neighborhood closeness centrality and orthology for predicting essential proteins. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2018, 17, 1-1.	3.0	50
34	Computational drug repositioning based on multi-similarities bilinear matrix factorization. Briefings in Bioinformatics, 2021, 22, .	6.5	49
35	Automatic ICD code assignment of Chinese clinical notes based on multilayer attention BiRNN. Journal of Biomedical Informatics, 2019, 91, 103114.	4.3	47
36	Computational Drug Repositioning with Random Walk on a Heterogeneous Network. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2019, 16, 1890-1900.	3.0	47

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37	Identifying essential proteins based on sub-network partition and prioritization by integrating subcellular localization information. <i>Journal of Theoretical Biology</i> , 2018, 447, 65-73.	1.7	46
38	Predicting Protein Functions by Using Unbalanced Random Walk Algorithm on Three Biological Networks. <i>IEEE/ACM Transactions on Computational Biology and Bioinformatics</i> , 2017, 14, 360-369.	3.0	45
39	Construction of Refined Protein Interaction Network for Predicting Essential Proteins. <i>IEEE/ACM Transactions on Computational Biology and Bioinformatics</i> , 2019, 16, 1386-1397.	3.0	44
40	Efficient Randomized Algorithms for the Fixed-Precision Low-Rank Matrix Approximation. <i>SIAM Journal on Matrix Analysis and Applications</i> , 2018, 39, 1339-1359.	1.4	41
41	DeepEP: a deep learning framework for identifying essential proteins. <i>BMC Bioinformatics</i> , 2019, 20, 506.	2.6	40
42	DMFLDA: A Deep Learning Framework for Predicting lncRNA-Disease Associations. <i>IEEE/ACM Transactions on Computational Biology and Bioinformatics</i> , 2021, 18, 2353-2363.	3.0	38
43	Identifying the overlapping complexes in protein interaction networks. <i>International Journal of Data Mining and Bioinformatics</i> , 2010, 4, 91.	0.1	36
44	Convergence Analysis of Markov Chain Monte Carlo Linear Solvers Using Ulam-von Neumann Algorithm. <i>SIAM Journal on Numerical Analysis</i> , 2013, 51, 2107-2122.	2.3	35
45	An interpretable boosting model to predict side effects of analgesics for osteoarthritis. <i>BMC Systems Biology</i> , 2018, 12, 105.	3.0	35
46	Overlap matrix completion for predicting drug-associated indications. <i>PLoS Computational Biology</i> , 2019, 15, e1007541.	3.2	35
47	Backbone Statistical Potential from Local Sequence-Structure Interactions in Protein Loops. <i>Journal of Physical Chemistry B</i> , 2010, 114, 1859-1869.	2.6	33
48	DeepLncLoc: a deep learning framework for long non-coding RNA subcellular localization prediction based on subsequence embedding. <i>Briefings in Bioinformatics</i> , 2022, 23, .	6.5	33
49	Predicting Human lncRNA-Disease Associations Based on Geometric Matrix Completion. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2020, 24, 2420-2429.	6.3	32
50	Big data-enabled multiscale serviceability analysis for aging bridges. <i>Digital Communications and Networks</i> , 2016, 2, 97-107.	5.0	31
51	Constructing Disease Similarity Networks Based on Disease Module Theory. <i>IEEE/ACM Transactions on Computational Biology and Bioinformatics</i> , 2020, 17, 906-915.	3.0	29
52	BACPI: a bi-directional attention neural network for compound-protein interaction and binding affinity prediction. <i>Bioinformatics</i> , 2022, 38, 1995-2002.	4.1	29
53	A New Method for Predicting Protein Functions From Dynamic Weighted Interactome Networks. <i>IEEE Transactions on Nanobioscience</i> , 2016, 15, 131-139.	3.3	28
54	DeepDISOBind: accurate prediction of RNA-, DNA- and protein-binding intrinsically disordered residues with deep multi-task learning. <i>Briefings in Bioinformatics</i> , 2022, 23, .	6.5	28

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55	Hybrid parallel tempering and simulated annealing method. Applied Mathematics and Computation, 2009, 212, 216-228.	2.2	25
56	PrGeFNE: Predicting disease-related genes by fast network embedding. Methods, 2021, 192, 3-12.	3.8	25
57	Template-based C8-SCORPION: a protein 8-state secondary structure prediction method using structural information and context-based features. BMC Bioinformatics, 2014, 15, S3.	2.6	24
58	Faster Matrix Completion Using Randomized SVD. , 2018, , .		24
59	Identification of Protein Complexes by Using a Spatial and Temporal Active Protein Interaction Network. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2020, 17, 817-827.	3.0	24
60	Protein interaction networks: centrality, modularity, dynamics, and applications. Frontiers of Computer Science, 2021, 15, 1.	2.4	24
61	Prioritizing Disease Genes by Using Search Engine Algorithm. Current Bioinformatics, 2016, 11, 195-202.	1.5	22
62	A Deep Learning Framework for Gene Ontology Annotations With Sequence- and Network-Based Information. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2021, 18, 2208-2217.	3.0	21
63	A novel graph attention model for predicting frequencies of drugâ€™s side effects from multi-view data. Briefings in Bioinformatics, 2021, 22, .	6.5	21
64	GPU-accelerated differential evolutionary Markov Chain Monte Carlo method for multi-objective optimization over continuous space. , 2010, , .		20
65	KAICD: A knowledge attention-based deep learning framework for automatic ICD coding. Neurocomputing, 2022, 469, 376-383.	5.9	19
66	DPCMNE: detecting protein complexes from protein-protein interaction networks via multi-level network embedding. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2021, PP, 1-1.	3.0	19
67	NIDM: network impulsive dynamics on multiplex biological network for disease-gene prediction. Briefings in Bioinformatics, 2021, 22, .	6.5	19
68	A breakdown-free block conjugate gradient method. BIT Numerical Mathematics, 2017, 57, 379-403.	2.0	18
69	An Adaptive Sparse Subspace Clustering for Cell Type Identification. Frontiers in Genetics, 2020, 11, 407.	2.3	18
70	A convolutional neural network and graph convolutional network-based method for predicting the classification of anatomical therapeutic chemicals. Bioinformatics, 2021, 37, 2841-2847.	4.1	18
71	Accelerated simulated tempering. Physics Letters, Section A: General, Atomic and Solid State Physics, 2004, 328, 274-283.	2.1	17
72	Sampling Multiple Scoring Functions Can Improve Protein Loop Structure Prediction Accuracy. Journal of Chemical Information and Modeling, 2011, 51, 1656-1666.	5.4	17

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73	CONFORMATIONAL SAMPLING IN TEMPLATE-FREE PROTEIN LOOP STRUCTURE MODELING: AN OVERVIEW. Computational and Structural Biotechnology Journal, 2013, 5, e201302003.	4.1	17
74	An Ensemble Method to Reconstruct Gene Regulatory Networks Based on Multivariate Adaptive Regression Splines. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2021, 18, 347-354.	3.0	17
75	Essential Protein Prediction Based on node2vec and XGBoost. Journal of Computational Biology, 2021, 28, 687-700.	1.6	17
76	Improving predicted protein loop structure ranking using a Pareto-optimality consensus method. BMC Structural Biology, 2010, 10, 22.	2.3	16
77	DECMC-GPU: An Efficient Multi-Objective Optimization Method with GPU Acceleration on the Fermi Architecture. New Generation Computing, 2011, 29, 163-184.	3.3	16
78	MGT-SM: A Method for Constructing Cellular Signal Transduction Networks. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2019, 16, 417-424.	3.0	16
79	DeepPPF: A deep learning framework for predicting protein family. Neurocomputing, 2021, 428, 19-29.	5.9	16
80	MOMCMC: An efficient Monte Carlo method for multi-objective sampling over real parameter space. Computers and Mathematics With Applications, 2012, 64, 3542-3556.	2.7	14
81	FLEXc: protein flexibility prediction using context-based statistics, predicted structural features, and sequence information. BMC Bioinformatics, 2016, 17, 281.	2.6	14
82	A disease inference method based on symptom extraction and bidirectional Long Short Term Memory networks. Methods, 2020, 173, 75-82.	3.8	14
83	High-dimensional MRI data analysis using a large-scale manifold learning approach. Machine Vision and Applications, 2013, 24, 995-1014.	2.7	13
84	ICOSA: A Distance-Dependent, Orientation-Specific Coarse-Grained Contact Potential for Protein Structure Modeling. Journal of Molecular Biology, 2015, 427, 2562-2576.	4.2	12
85	A Deep Learning Framework for Identifying Essential Proteins Based on Protein-Protein Interaction Network and Gene Expression Data. , 2018, , .		12
86	Biomedical data, computational methods and tools for evaluating disease-disease associations. Briefings in Bioinformatics, 2022, 23, .	6.5	12
87	Building a Knowledge-Based Statistical Potential by Capturing High-Order Inter-residue Interactions and its Applications in Protein Secondary Structure Assessment. Journal of Chemical Information and Modeling, 2013, 53, 500-508.	5.4	11
88	C-DEVA: Detection, evaluation, visualization and annotation of clusters from biological networks. BioSystems, 2016, 150, 78-86.	2.0	11
89	A load-balancing workload distribution scheme for three-body interaction computation on Graphics Processing Units (GPU). Journal of Parallel and Distributed Computing, 2016, 87, 91-101.	4.1	11
90	A GPU-based large-scale Monte Carlo simulation method for systems with long-range interactions. Journal of Computational Physics, 2017, 338, 252-268.	3.8	11

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91	A Novel Drug Repositioning Approach Based on Collaborative Metric Learning. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2021, 18, 463-471.	3.0	11
92	Biomedical Data and Deep Learning Computational Models for Predicting Compound-Protein Relations. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2022, 19, 2092-2110.	3.0	11
93	miRTRS: A Recommendation Algorithm for Predicting miRNA Targets. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2020, 17, 1032-1041.	3.0	10
94	Feature and Nuclear Norm Minimization for Matrix Completion. IEEE Transactions on Knowledge and Data Engineering, 2022, 34, 2190-2199.	5.7	10
95	FUNMarker: Fusion Network-Based Method to Identify Prognostic and Heterogeneous Breast Cancer Biomarkers. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2021, 18, 2483-2491.	3.0	10
96	A novel extended Pareto Optimality Consensus model for predicting essential proteins. Journal of Theoretical Biology, 2019, 480, 141-149.	1.7	9
97	miRTMC: A miRNA Target Prediction Method Based on Matrix Completion Algorithm. IEEE Journal of Biomedical and Health Informatics, 2020, 24, 3630-3641.	6.3	8
98	CLPred: a sequence-based protein crystallization predictor using BLSTM neural network. Bioinformatics, 2020, 36, i709-i717.	4.1	8
99	Accelerating knowledge-based energy evaluation in protein structure modeling with Graphics Processing Units. Journal of Parallel and Distributed Computing, 2012, 72, 297-307.	4.1	7
100	Disease Inference with Symptom Extraction and Bidirectional Recurrent Neural Network. , 2018, , .		7
101	HNEDTI: Prediction of drug-target interaction based on heterogeneous network embedding. , 2019, , .		7
102	LncRNA-disease association prediction through combining linear and non-linear features with matrix factorization and deep learning techniques. , 2019, , .		7
103	Detecting protein complex based on hierarchical compressing network embedding. , 2019, , .		7
104	Integrating multiple scoring functions to improve protein loop structure conformation space sampling. , 2010, , .		5
105	DeepFrag-k: a fragment-based deep learning approach for protein fold recognition. BMC Bioinformatics, 2020, 21, 203.	2.6	5
106	A comparison of topologically associating domain callers based on Hi-C data. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2022, PP, 1-1.	3.0	5
107	Decoding the Structural Keywords in Protein Structure Universe. Journal of Computer Science and Technology, 2019, 34, 3-15.	1.5	4
108	Ess-NEXG: Predict Essential Proteins by Constructing a Weighted Protein Interaction Network Based on Node Embedding and XGBoost. Lecture Notes in Computer Science, 2020, , 95-104.	1.3	4

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109	A novel approach based on deep residual learning to predict drug's anatomical therapeutic chemical code. , 2020, , .		4
110	Accurate Prediction of Human Essential Proteins Using Ensemble Deep Learning. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2021, PP, 1-1.	3.0	4
111	A deep matrix factorization based approach for single-cell RNA-seq data clustering. Methods, 2022, 205, 114-122.	3.8	4
112	An Implementation of Block Conjugate Gradient Algorithm on CPU-GPU Processors. , 2014, , .		3
113	An Apache Spark Implementation of Block Power Method for Computing Dominant Eigenvalues and Eigenvectors of Large-Scale Matrices. , 2016, , .		3
114	Tentative diagnosis prediction via deep understanding of patient narratives. , 2019, , .		3
115	A Hybrid Pooling Based Deep Learning Framework For Automated ICD Coding. , 2021, , .		3
116	DRCNNTLe: A deep recurrent convolutional neural network with transfer learning through pre-trained embeddings for automated ICD coding. Methods, 2022, 205, 97-105.	3.8	3
117	Conformational Clusters of Phosphorylated Tyrosine. Journal of the American Chemical Society, 2017, 139, 17632-17638.	13.7	2
118	Network Connectivity, Centrality and Fragmentation in the Greek-Key Protein Topology. Protein Journal, 2019, 38, 497-505.	1.6	2
119	NIMCE: a gene regulatory network inference approach based on multi time delays causal entropy. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2020, PP, 1-1.	3.0	2
120	De Novo Prediction of Drug-Target Interactions Using Laplacian Regularized Schatten p-Norm Minimization. Journal of Computational Biology, 2021, 28, 660-673.	1.6	2
121	Gaussian variant of Freivalds's algorithm for efficient and reliable matrix product verification. Monte Carlo Methods and Applications, 2020, 26, 273-284.	0.8	2
122	Improving human essential protein prediction using only protein sequences via ensemble learning. , 2021, , .		2
123	Template-based prediction of protein 8-state secondary structures. , 2013, , .		1
124	Coarse-Grained Contact Potential Helps Improve Fold Recognition Sensitivity in Template-Based Protein Structure Modeling. , 2016, , .		1
125	Validating the Correctness of Outsourced Computational Tasks Using Pseudorandom Number Generators. , 2017, , .		1
126	RNPredATC: a deep residual learning-based model with applications to the prediction of drug-ATC code association. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2021, PP, 1-1.	3.0	1

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127	Multi-Label Classification of ICD-10 Coding & Clinical Notes Using MIMIC & CodiEsp. , 2021, , .		1
128	Overlapping Protein Complexes Detection Based on Multi-level Topological Similarities. Lecture Notes in Computer Science, 2021, , 215-226.	1.3	1
129	Extensive exploration of conformational space improves Rosetta results for short protein domains. Computational Systems Bioinformatics / Life Sciences Society Computational Systems Bioinformatics Conference, 2008, 7, 203-9.	0.4	1
130	An improved statistics-based backbone torsion potential energy for protein loop structure modeling. , 2013, , .		0
131	Overlap matrix completion for predicting drug-associated indications. , 2019, 15, e1007541.		0
132	Overlap matrix completion for predicting drug-associated indications. , 2019, 15, e1007541.		0
133	Overlap matrix completion for predicting drug-associated indications. , 2019, 15, e1007541.		0
134	Overlap matrix completion for predicting drug-associated indications. , 2019, 15, e1007541.		0