# Yanchun Liang

List of Publications by Year
in descending order

| | |
|---|---|
| 103<br>papers | 3,344<br>citations |

257450
| |
|---|
| 24<br>h-index |

155660
| |
|---|
| 55<br>g-index |

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|---|---|---|---|
| 106<br>all docs | 106<br>docs citations | 106<br>times ranked | 5711<br>citing authors |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 1 | Long Noncoding RNA Identification: Comparing Machine Learning Based Tools for Long Noncoding Transcripts Discrimination. BioMed Research International, 2016, 2016, 1-14. | 1.9 | 1,176 |
| 2 | A content-based recommender system for computer science publications. Knowledge-Based Systems, 2018, 157, 1-9. | 7.1 | 268 |
| 3 | MusiteDeep: a deep-learning framework for general and kinase-specific phosphorylation site prediction. Bioinformatics, 2017, 33, 3909-3916. | 4.1 | 205 |
| 4 | Text classification based on deep belief network and softmax regression. Neural Computing and Applications, 2018, 29, 61-70. | 5.6 | 199 |
| 5 | The bioinformatics toolbox for circRNA discovery and analysis. Briefings in Bioinformatics, 2021, 22, 1706-1728. | 6.5 | 170 |
| 6 | LncFinder: an integrated platform for long non-coding RNA identification utilizing sequence intrinsic composition, structural information and physicochemical property. Briefings in Bioinformatics, 2019, 20, 2009-2027. | 6.5 | 98 |
| 7 | Capsule network for protein post-translational modification site prediction. Bioinformatics, 2019, 35, 2386-2394. | 4.1 | 92 |
| 8 | Lunar impact crater identification and age estimation with Chang'E data by deep and transfer learning. Nature Communications, 2020, 11, 6358. | 12.8 | 79 |
| 9 | 3′UTR shortening identifies high-risk cancers with targeted dysregulation of the ceRNA network. Scientific Reports, 2014, 4, 5406. | 3.3 | 52 |
| 10 | The Deep Learning–Based Recommender System "Pubmender" for Choosing a Biomedical Publication Venue: Development and Validation Study. Journal of Medical Internet Research, 2019, 21, e12957. | 4.3 | 47 |
| 11 | Prediction of Drought-Resistant Genes in Arabidopsis thaliana Using SVM-RFE. PLoS ONE, 2011, 6, e21750. | 2.5 | 44 |
| 12 | Lncident: A Tool for Rapid Identification of Long Noncoding RNAs Utilizing Sequence Intrinsic Composition and Open Reading Frame Information. International Journal of Genomics, 2016, 2016, 1-11. | 1.6 | 43 |
| 13 | A Fuzzy-Statistics-Based Principal Component Analysis (FS-PCA) Method for Multispectral Image Enhancement and Display. IEEE Transactions on Geoscience and Remote Sensing, 2008, 46, 3937-3947. | 6.3 | 39 |
| 14 | Warburg Effects in Cancer and Normal Proliferating Cells: Two Tales of the Same Name. Genomics, Proteomics and Bioinformatics, 2019, 17, 273-286. | 6.9 | 39 |
| 15 | Deep Feature-Based Text Clustering and its Explanation. IEEE Transactions on Knowledge and Data Engineering, 2022, 34, 3669-3680. | 5.7 | 39 |
| 16 | Image Captioning with Bidirectional Semantic Attention-Based Guiding of Long Short-Term Memory. Neural Processing Letters, 2019, 50, 103-119. | 3.2 | 33 |
| 17 | Dimension Reduction and Clustering Models for Single-Cell RNA Sequencing Data: A Comparative Study. International Journal of Molecular Sciences, 2020, 21, 2181. | 4.1 | 33 |
| 18 | Dissection of early transcriptional responses to water stress in Arundo donax L. by unigene-based RNA-seq. Biotechnology for Biofuels, 2016, 9, 54. | 6.2 | 32 |

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|---|---------|----|-----------|
| 19 | Incremental and Decremental Affinity Propagation for Semisupervised Clustering in Multispectral Images. IEEE Transactions on Geoscience and Remote Sensing, 2013, 51, 1666-1679. | 6.3 | 31 |
| 20 | A Bayesian model for detection of high-order interactions among genetic variants in genome-wide association studies. BMC Genomics, 2015, 16, 1011. | 2.8 | 31 |
| 21 | An integrated algorithm based on artificial bee colony and particle swarm optimization. , 2010, , . | | 30 |
| 22 | Long Noncoding RNA and Protein Interactions: From Experimental Results to Computational Models Based on Network Methods. International Journal of Molecular Sciences, 2019, 20, 1284. | 4.1 | 29 |
| 23 | Using Machine Learning to Measure Relatedness Between Genes: A Multi-Features Model. Scientific Reports, 2019, 9, 4192. | 3.3 | 27 |
| 24 | A feature selection method based on multiple kernel learning with expression profiles of different types. BioData Mining, 2017, 10, 4. | 4.0 | 26 |
| 25 | Deep Residual Convolutional Neural Network for Protein-Protein Interaction Extraction. IEEE Access, 2019, 7, 89354-89365. | 4.2 | 26 |
| 26 | Essential protein identification based on essential protein–protein interaction prediction by Integrated Edge Weights. Methods, 2015, 83, 51-62. | 3.8 | 25 |
| 27 | Relation path embedding in knowledge graphs. Neural Computing and Applications, 2019, 31, 5629-5639. | 5.6 | 24 |
| 28 | Prediction of Protein–ATP Binding Residues Based on Ensemble of Deep Convolutional Neural Networks and LightGBM Algorithm. International Journal of Molecular Sciences, 2021, 22, 939. | 4.1 | 21 |
| 29 | Evolutionary conservation and function of the human embryonic stem cell specific miR-302/367 cluster. Comparative Biochemistry and Physiology Part D: Genomics and Proteomics, 2015, 16, 83-98. | 1.0 | 20 |
| 30 | Predicting lncRNA-disease associations using network topological similarity based on deep mining heterogeneous networks. Mathematical Biosciences, 2019, 315, 108229. | 1.9 | 17 |
| 31 | Deep learning analysis and age prediction from shoeprints. Forensic Science International, 2021, 327, 110987. | 2.2 | 16 |
| 32 | Identification of Essential Proteins Based on Ranking Edge-Weights in Protein-Protein Interaction Networks. PLoS ONE, 2014, 9, e108716. | 2.5 | 15 |
| 33 | Multi-label Deep Learning for Gene Function Annotation in Cancer Pathways. Scientific Reports, 2018, 8, 267. | 3.3 | 15 |
| 34 | Trends in Alzheimer's Disease Research Based upon Machine Learning Analysis of PubMed Abstracts. International Journal of Biological Sciences, 2019, 15, 2065-2074. | 6.4 | 15 |
| 35 | A fast SVM training algorithm based on the set segmentation and k -means clustering*. Progress in Natural Science: Materials International, 2003, 13, 750-755. | 4.4 | 12 |
| 36 | Simulation of Evacuating Crowd Based on Deep Learning and Social Force Model. IEEE Access, 2019, 7, 155361-155371. | 4.2 | 12 |

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| 37 | An Ant Colony Optimization Method for Prize-collecting Traveling Salesman Problem with Time Windows. , 2008, , . | | 11 |
| 38 | A dynamic programing approach to integrate gene expression data and network information for pathway model generation. Bioinformatics, 2020, 36, 169-176. | 4.1 | 11 |
| 39 | An improved method of support vector machine and its applications to financial time series forecasting *. Progress in Natural Science: Materials International, 2003, 13, 696-700. | 4.4 | 10 |
| 40 | Solving traveling salesman problems by genetic algorithms*. Progress in Natural Science: Materials International, 2003, 13, 135-141. | 4.4 | 10 |
| 41 | An Efficient Genetic Algorithm for Optimization Problems with Time-Consuming Fitness Evaluation. International Journal of Computational Methods, 2015, 12, 1350106. | 1.3 | 10 |
| 42 | BFDCA: A Comprehensive Tool of Using Bayes Factor for Differential Co-Expression Analysis. Journal of Molecular Biology, 2017, 429, 446-453. | 4.2 | 10 |
| 43 | RNA-TVcurve: a Web server for RNA secondary structure comparison based on a multi-scale similarity of its triple vector curve representation. BMC Bioinformatics, 2017, 18, 51. | 2.6 | 10 |
| 44 | LncLocation: Efficient Subcellular Location Prediction of Long Non-Coding RNA-Based Multi-Source Heterogeneous Feature Fusion. International Journal of Molecular Sciences, 2020, 21, 7271. | 4.1 | 10 |
| 45 | Unsupervised key-phrases extraction from scientific papers using domain and linguistic knowledge. , 2008, , . | | 9 |
| 46 | International Natural Gas Price Trends Prediction with Historical Prices and Related News. Energies, 2022, 15, 3573. | 3.1 | 9 |
| 47 | Boost particle swarm optimization with fitness estimation. Natural Computing, 2019, 18, 229-247. | 3.0 | 8 |
| 48 | Full Text Clustering and Relationship Network Analysis of Biomedical Publications. PLoS ONE, 2014, 9, e108847. | 2.5 | 8 |
| 49 | Improving degree-based variable ordering heuristics for solving constraint satisfaction problems. Journal of Heuristics, 2016, 22, 125-145. | 1.4 | 7 |
| 50 | Computational Analysis of Specific MicroRNA Biomarkers for Noninvasive Early Cancer Detection. BioMed Research International, 2017, 2017, 1-9. | 1.9 | 7 |
| 51 | Diagnosis of Breast Hyperplasia and Evaluation of RuXian-I Based on Metabolomics Deep Belief Networks. International Journal of Molecular Sciences, 2019, 20, 2620. | 4.1 | 7 |
| 52 | A hotspots analysis-relation discovery representation model for revealing diabetes mellitus and obesity. BMC Systems Biology, 2018, 12, 116. | 3.0 | 6 |
| 53 | Feature space learning model. Journal of Ambient Intelligence and Humanized Computing, 2019, 10, 2029-2040. | 4.9 | 6 |
| 54 | A dynamic fuzzy clustering method based on genetic algorithm*. Progress in Natural Science: Materials International, 2003, 13, 932-935. | 4.4 | 5 |

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| 55 | An extended Lagrangian support vector machine for classifications*. Progress in Natural Science: Materials International, 2004, 14, 519-523. | 4.4 | 5 |
| 56 | Adaptive and iterative least squares support vector regression based on quadratic Renyi entropy. , 2008, , . | | 5 |
| 57 | Data Preprocessing in SVM-Based Keywords Extraction from Scientific Documents. , 2009, , . | | 5 |
| 58 | Decorrelationâ€"Separability-Based Affinity Propagation for Semisupervised Clustering of Hyperspectral Images. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2016, 9, 568-582. | 4.9 | 5 |
| 59 | Surprisingly Popular Algorithm-Based Comprehensive Adaptive Topology Learning PSO. , 2019, , . | | 5 |
| 60 | Overlapping Community Detection Based on Membership Degree Propagation. Entropy, 2021, 23, 15. | 2.2 | 5 |
| 61 | Study on optimization of agent initial positions in land combat simulation*. Progress in Natural Science: Materials International, 2004, 14, 257-261. | 4.4 | 4 |
| 62 | Improved Quantum-Inspired Evolutionary Algorithm and Its Application to 3-SAT Problems. , 2008, , . | | 4 |
| 63 | Parameter Selection of Support Vector Regression Based on a Novel Chaotic Immune Algorithm. , 2009, , . | | 4 |
| 64 | A hybrid algorithm of minimum spanning tree and nearest neighbor for classifying human cancers. , 2010, , . | | 4 |
| 65 | The method for breast cancer grade prediction and pathway analysis based on improved multiple kernel learning. Journal of Bioinformatics and Computational Biology, 2017, 15, 1650037. | 0.8 | 4 |
| 66 | A Novel Unsupervised Algorithm for Biological Process-based Analysis on Cancer. Scientific Reports, 2017, 7, 4671. | 3.3 | 4 |
| 67 | A Novel Iterative Velocity Control Algorithm and Its FPGA Implementation Based on Trigonometric Function. Chinese Journal of Electronics, 2019, 28, 237-245. | 1.5 | 4 |
| 68 | Solving constrained traveling salesman problems by genetic algorithms*. Progress in Natural Science: Materials International, 2004, 14, 631-637. | 4.4 | 3 |
| 69 | SOM2W and RBF Neural Network-Based Hybrid Models and Their Applications to New Share Pricing. , 2008, , . | | 3 |
| 70 | Prediction of disease-resistant gene in rice based on SVM-RFE. , 2010, , . | | 3 |
| 71 | A study on SVM with feature selection for fault diagnosis of power systems. , 2010, , . | | 3 |
| 72 | A novel support vector and K-Means based hybrid clustering algorithm. , 2010, , . | | 3 |

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| 73 | Specific Biomarkers: Detection of Cancer Biomarkers Through High-Throughput Transcriptomics Data. Cognitive Computation, 2015, 7, 652-666. | 5.2 | 3 |
| 74 | DeepUEP: Prediction of Urine Excretory Proteins Using Deep Learning. IEEE Access, 2020, 8, 100251-100261. | 4.2 | 3 |
| 75 | Relating brain structure images to personality characteristics using 3D convolution neural network. CAAI Transactions on Intelligence Technology, 2021, 6, 338-346. | 8.1 | 3 |
| 76 | DLD: An Optimized Chinese Speech Recognition Model Based on Deep Learning. Complexity, 2022, 2022, 1-8. | 1.6 | 3 |
| 77 | Computation speedup in the dynamic simulation of MEMS by macromodels. Progress in Natural Science: Materials International, 2003, 13, 219-227. | 4.4 | 2 |
| 78 | A Novel Time-Delay Recurrent Neural Network and Application for Identifying and Controlling Nonlinear Systems. , 2007, , . | | 2 |
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| 80 | Wireless Digital Gas Meter with Lower Power Consumption. , 2010, , . | | 2 |
| 81 | A Novel Prediction Method for ATP-Binding Sites From Protein Primary Sequences Based on Fusion of Deep Convolutional Neural Network and Ensemble Learning. IEEE Access, 2020, 8, 21485-21495. | 4.2 | 2 |
| 82 | Cancer Research Trend Analysis Based on Fusion Feature Representation. Entropy, 2021, 23, 338. | 2.2 | 2 |
| 83 | A computational-intelligence-based optimization of agents' initial positions in land combat simulation *. Progress in Natural Science: Materials International, 2003, 13, 620-625. | 4.4 | 1 |
| 84 | Estimate of error bounds in the improved support vector regression*. Progress in Natural Science: Materials International, 2004, 14, 362-364. | 4.4 | 1 |
| 85 | Text Categorization Method Based on Improved Mutual Information and Characteristic Weights Evaluation Algorithms. , 2007, , . | | 1 |
| 86 | The Application of Support Vector Machine to Operon Prediction. , 2008, , . | | 1 |
| 87 | Operon Prediction by Decision Tree Classifier Based on VPRSM. , 2009, , . | | 1 |
| 88 | Mean, median and tri-mean based statistical detection methods for differential gene expression in microarray data. , 2010, , . | | 1 |
| 89 | Implementation and analysis of moving objects detection in Video Surveillance. , 2010, , . | | 1 |
| 90 | Dynamic Scheduling for Semiconductor Wafer Fabrication Based on ETAEMS and MAS. , 2010, , . | | 1 |

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| 91 | Relation discovery and hotspots analysis on diabetes mellitus and obesity with representation model. , 2017, , . | | 1 |
| 92 | Construction and Applications on Open Online Course of Data Structure and Algorithms. , 2020, , . | | 1 |
| 93 | Exploration of Online and Offline Mixed Teaching Mode of Data Structure. , 2020, , . | | 1 |
| 94 | Discovering trends and hotspots of biosafety and biosecurity research via machine learning. Briefings in Bioinformatics, 2022, 23, . | 6.5 | 1 |
| 95 | Prediction of Transcription Factor Binding Sites Using Genetic Algorithm. , 2006, , . | | 0 |
| 96 | A Populations Evolution Study Using the Genotype Frequency Data of Single Nucleotide Polymorphism from Y-Chromosome. , 2007, , . | | 0 |
| 97 | A Novel Approach for Classifying Human Cancers. , 2008, , . | | 0 |
| 98 | Algorithm for Disease Association Studies Using Functionally Informative Haplotype Motif. , 2008, , . | | 0 |
| 99 | A New Application of Biclustering Analysis on Loss of Heterozygosity Data of Lung Carcinomas Samples. , 2008, , . | | 0 |
| 100 | Gene Expression Regulation in E-Cell Model Analog-Cell. , 2010, , . | | 0 |
| 101 | The Application of Fuzzy System Group in Intelligent Diagnosis for Power Tranformer. , 2011, , . | | 0 |
| 102 | A Support Vector and K-Means Based Hybrid Intelligent Data Clustering Algorithm. IEICE Transactions on Information and Systems, 2011, E94-D, 2234-2243. | 0.7 | 0 |
| 103 | Acupuncture and Tuina Knowledge Graph for Ancient Literature of Traditional Chinese Medicine. , 2021, , . | | 0 |