May Wang

List of Publications by Year
in descending order

312 papers	13,641 citations	61857 43 h-index	25716 108 g-index
328 all docs	328 docs citations	328 times ranked	20337 citing authors

#	Article	IF	Citations
1	In vivo tumor targeting and spectroscopic detection with surface-enhanced Raman nanoparticle tags. Nature Biotechnology, 2008, 26, 83-90.	9.4	2,107
2	GoMiner: a resource for biological interpretation of genomic and proteomic data. Genome Biology, 2003, 4, R28.	13.9	1,038
3	A comprehensive assessment of RNA-seq accuracy, reproducibility and information content by the Sequencing Quality Control Consortium. Nature Biotechnology, 2014, 32, 903-914.	9.4	883
4	The MicroArray Quality Control (MAQC)-II study of common practices for the development and validation of microarray-based predictive models. Nature Biotechnology, 2010, 28, 827-838.	9.4	795
5	Review of condition assessment of power transformers in service. IEEE Electrical Insulation Magazine, 2002, 18, 12-25.	1.1	735
6	Semiconductor Quantum Dots for Bioimaging and Biodiagnostic Applications. Annual Review of Analytical Chemistry, 2013, 6, 143-162.	2.8	559
7	Bioconjugated quantum dots for multiplexed and quantitative immunohistochemistry. Nature Protocols, 2007, 2, 1152-1165.	5.5	472
8	Comparison of RNA-seq and microarray-based models for clinical endpoint prediction. Genome Biology, 2015, 16, 133.	3.8	325
9	Hand-held Spectroscopic Device for In Vivo and Intraoperative Tumor Detection: Contrast Enhancement, Detection Sensitivity, and Tissue Penetration. Analytical Chemistry, 2010, 82, 9058-9065.	3.2	249
10	Multimodal deep learning models for early detection of Alzheimer's disease stage. Scientific Reports, 2021, 11, 3254.	1.6	243
11	Pathology imaging informatics for quantitative analysis of whole-slide images. Journal of the American Medical Informatics Association: JAMIA, 2013, 20, 1099-1108.	2.2	228
12	Multi-platform assessment of transcriptome profiling using RNA-seq in the ABRF next-generation sequencing study. Nature Biotechnology, 2014, 32, 915-925.	9.4	217
13	Desorption electrospray ionization mass spectrometry reveals surface-mediated antifungal chemical defense of a tropical seaweed. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 7314-7319.	3.3	200
14	'Omic and Electronic Health Record Big Data Analytics for Precision Medicine. IEEE Transactions on Biomedical Engineering, 2017, 64, 263-273.	2.5	198
15	Nanotechnology for targeted cancer therapy. Expert Review of Anticancer Therapy, 2007, 7, 833-837.	1.1	175
16	Detecting and correcting systematic variation in large-scale RNA sequencing data. Nature Biotechnology, 2014, 32, 888-895.	9.4	174
17	Nanotechnology Applications in Surgical Oncology. Annual Review of Medicine, 2010, 61, 359-373.	5.0	164
18	Intraoperative Near-Infrared Imaging Can Identify Pulmonary Nodules. Annals of Thoracic Surgery, 2014, 98, 1223-1230.	0.7	154

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19	Molecular Mapping of Tumor Heterogenity on Clinical Tissue Specimens with Multiplexed Quantum Dots. ACS Nano, 2010, 4, 2755-2765.	7.3	143
20	Sphingolipidomics: a valuable tool for understanding the roles of sphingolipids in biology and disease. Journal of Lipid Research, 2009, 50, S97-S102.	2.0	130
21	Simulated microgravity using the Random Positioning Machine inhibits differentiation and alters gene expression profiles of 2T3 preosteoblasts. American Journal of Physiology - Cell Physiology, 2005, 288, C1211-C1221.	2.1	120
22	LncADeep: an *ab initio* lncRNA identification and functional annotation tool based on deep learning. Bioinformatics, 2018, 34, 3825-3834.	1.8	110
23	(Glyco)sphingolipidology: an amazing challenge and opportunity for systems biology. Trends in Biochemical Sciences, 2007, 32, 457-468.	3.7	109
24	Automated cell counting and cluster segmentation using concavity detection and ellipse fitting techniques. , 2009, 2009, 795-798.		102
25	k-Nearest neighbor models for microarray gene expression analysis and clinical outcome prediction. Pharmacogenomics Journal, 2010, 10, 292-309.	0.9	102
26	Improved Detection of Power Transformer Winding Movement by Extending the FRA High Frequency Range. IEEE Transactions on Power Delivery, 2005, 20, 1930-1938.	2.9	96
27	Apparatus for Online Power Transformer Winding Monitoring Using Bushing Tap Injection. IEEE Transactions on Power Delivery, 2009, 24, 996-1003.	2.9	93
28	Intraoperative Near-Infrared Imaging of Surgical Wounds after Tumor Resections Can Detect Residual Disease. Clinical Cancer Research, 2012, 18, 5741-5751.	3.2	92
29	Nanometer-scale mapping and single-molecule detection with color-coded nanoparticle probes. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 3298-3303.	3.3	91
30	Combining Two-Dimensional Diffusion-Ordered Nuclear Magnetic Resonance Spectroscopy, Imaging Desorption Electrospray Ionization Mass Spectrometry, and Direct Analysis in Real-Time Mass Spectrometry for the Integral Investigation of Counterfeit Pharmaceuticals. Analytical Chemistry, 2009, 81, 4803-4812.	3.2	89
31	A Review of Emerging Technologies for the Management of Diabetes Mellitus. IEEE Transactions on Biomedical Engineering, 2015, 62, 2735-2749.	2.5	86
32	DeeperBind: Enhancing prediction of sequence specificities of DNA binding proteins. , 2016, 2016, 178-183.		86
33	Convergence of biomarkers, bioinformatics and nanotechnology for individualized cancer treatment. Trends in Biotechnology, 2009, 27, 350-358.	4.9	83
34	Automatic batch-invariant color segmentation of histological cancer images. , 2011, 2011, 657-660.		70
35	Can mHealth Technology Help Mitigate the Effects of the COVID-19 Pandemic?. IEEE Open Journal of Engineering in Medicine and Biology, 2020, 1, 243-248.	1.7	69
36	*In vivo* use of hyperspectral imaging to develop a noncontact endoscopic diagnosis support system for malignant colorectal tumors. Journal of Biomedical Optics, 2016, 21, 016001.	1.4	65

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37	The impact of personalization and compatibility with past experience on e-banking usage. International Journal of Bank Marketing, 2017, 35, 45-55.	3.6	65
38	Interpretable Predictions of Clinical Outcomes with An Attention-based Recurrent Neural Network. , 2017, 2017, 233-240.		64
39	Transformer winding movement monitoring in service - key factors affecting FRA measurements. IEEE Electrical Insulation Magazine, 2004, 20, 5-12.	1.1	60
40	Seaweed Allelopathy Against Coral: Surface Distribution of a Seaweed Secondary Metabolite by Imaging Mass Spectrometry. Journal of Chemical Ecology, 2012, 38, 1203-1214.	0.9	60
41	Effect of low-expression gene filtering on detection of differentially expressed genes in RNA-seq data. , 2015, 2015, 6461-4.		57
42	OmniSpect: An Open MATLAB-Based Tool for Visualization and Analysis of Matrix-Assisted Laser Desorption/Ionization and Desorption Electrospray Ionization Mass Spectrometry Images. Journal of the American Society for Mass Spectrometry, 2013, 24, 646-649.	1.2	56
43	Deep learning based feature-level integration of multi-omics data for breast cancer patients survival analysis. BMC Medical Informatics and Decision Making, 2020, 20, 225.	1.5	56
44	Eliminating tissue-fold artifacts in histopathological whole-slide images for improved image-based prediction of cancer grade. Journal of Pathology Informatics, 2013, 4, 22.	0.8	55
45	Toward an analytical approach for effective Web site design: A framework for modeling, evaluation and enhancement. Electronic Commerce Research and Applications, 2007, 6, 159-170.	2.5	54
46	Histological image classification using biologically interpretable shape-based features. BMC Medical Imaging, 2013, 13, 9.	1.4	52
47	Advancing Medical Imaging Informatics by Deep Learning-Based Domain Adaptation. Yearbook of Medical Informatics, 2020, 29, 129-138.	0.8	52
48	Biological interpretation of morphological patterns in histopathological whole-slide images. , 2012, 2012, 218-225.		50
49	Removing Batch Effects From Histopathological Images for Enhanced Cancer Diagnosis. IEEE Journal of Biomedical and Health Informatics, 2014, 18, 765-772.	3.9	50
50	Assessing the impact of human genome annotation choice on RNA-seq expression estimates. BMC Bioinformatics, 2013, 14, S8.	1.2	49
51	Multiscale Integration of -Omic, Imaging, and Clinical Data in Biomedical Informatics. IEEE Reviews in Biomedical Engineering, 2012, 5, 74-87.	13.1	48
52	Computational nanomedicine: modeling of nanoparticle-mediated hyperthermal cancer therapy. Nanomedicine, 2013, 8, 1323-1333.	1.7	48
53	COVID-19 Automatic Diagnosis With Radiographic Imaging: Explainable Attention Transfer Deep Neural Networks. IEEE Journal of Biomedical and Health Informatics, 2021, 25, 2376-2387.	3.9	48
54	Current and Future Challenges in Point-of-Care Technologies: A Paradigm-Shift in Affordable Global Healthcare With Personalized and Preventive Medicine. IEEE Journal of Translational Engineering in Health and Medicine, 2015, 3, 1-10.	2.2	44

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55	Discovery of Lipidome Alterations Following Traumatic Brain Injury via High-Resolution Metabolomics. Journal of Proteome Research, 2018, 17, 2131-2143.	1.8	44
56	Price Clustering: Evidence Using Comprehensive Limit–Order Data. Financial Review, 2009, 44, 1-29.	1.3	43
57	Biomedical imaging informatics in the era of precision medicine: progress, challenges, and opportunities. Journal of the American Medical Informatics Association: JAMIA, 2013, 20, 1010-1013.	2.2	43
58	Grand Challenges in Interfacing Engineering With Life Sciences and Medicine. IEEE Transactions on Biomedical Engineering, 2013, 60, 589-598.	2.5	42
59	Small Portable Interchangeable Imager of Fluorescence for Fluorescence Guided Surgery and Research. Technology in Cancer Research and Treatment, 2015, 14, 213-220.	0.8	42
60	The Design and Performance of the Exubera® Pulmonary Insulin Delivery System. Diabetes Technology and Therapeutics, 2007, 9, S-16-S-27.	2.4	39
61	Early Prediction of Sepsis in EMR Records Using Traditional ML Techniques and Deep Learning LSTM Networks. , 2018, 2018, 4038-4041.		35
62	chip artifact CORRECTion (caCORRECT): A Bioinformatics System for Quality Assurance of Genomics and Proteomics Array Data. Annals of Biomedical Engineering, 2007, 35, 1068-1080.	1.3	34
63	Intraoperative Spectroscopy with Ultrahigh Sensitivity for Image-Guided Surgery of Malignant Brain Tumors. Analytical Chemistry, 2016, 88, 858-867.	3.2	34
64	Benchmarking RNA-Seq quantification tools. , 2013, 2013, 647-50.		33
65	ArrayWiki: an enabling technology for sharing public microarray data repositories and meta-analyses. BMC Bioinformatics, 2008, 9, S18.	1.2	32
66	icuARM-An ICU Clinical Decision Support System Using Association Rule Mining. IEEE Journal of Translational Engineering in Health and Medicine, 2013, 1, 4400110-4400110.	2.2	31
67	Explainable Artificial Intelligence Methods in Combating Pandemics: A Systematic Review. IEEE Reviews in Biomedical Engineering, 2023, 16, 5-21.	13.1	31
68	Effects of Recommendation Neutrality and Sponsorship Disclosure on Trust vs. Distrust in Online Recommendation Agents: Moderating Role of Explanations for Organic Recommendations. Management Science, 2018, 64, 5198-5219.	2.4	29
69	Functional genomics and proteomics in the clinical neurosciences: data mining and bioinformatics. Progress in Brain Research, 2006, 158, 83-108.	0.9	28
70	Whole Reproductive System Non-Negative Matrix Factorization Mass Spectrometry Imaging of an Early-Stage Ovarian Cancer Mouse Model. PLoS ONE, 2016, 11, e0154837.	1.1	28
71	Editorial Special Issue on "AI-Driven Informatics, Sensing, Imaging and Big Data Analytics for Fighting the COVID-19 Pandemic". IEEE Journal of Biomedical and Health Informatics, 2020, 24, 2731-2732.	3.9	26
72	Diagnostic biomarkers for renal cell carcinoma: selection using novel bioinformatics systems for microarray data analysis. Human Pathology, 2009, 40, 1671-1678.	1.1	24

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73	Reduction of the carbon footprint of college freshman diets after a food-based environmental science course. Climatic Change, 2019, 154, 547-564.	1.7	24
74	Integrating multi-omics data by learning modality invariant representations for improved prediction of overall survival of cancer. Methods, 2021, 189, 74-85.	1.9	24
75	Kinect-based rehabilitation system for patients with traumatic brain injury. , 2013, 2013, 4625-8.		23
76	Renal Epithelial Neoplasms: Diagnostic Applications of Gene Expression Profiling. Advances in Anatomic Pathology, 2008, 15, 28-38.	2.4	22
77	Emerging technologies and their impact on regulatory science. Experimental Biology and Medicine, 2022, 247, 1-75.	1.1	22
78	Detecting and Quantifying Biomarkers of Risk for Colorectal Cancer Using Quantum Dots and Novel Image Analysis Algorithms. , 2006, 2006, 3313-6.		21
79	Computer Aided Histopathological Classification of Cancer Subtypes. , 2007, , .		21
80	Matrix factorization techniques for analysis of imaging mass spectrometry data. , 2008, 2008, .		21
81	Effects of Al-coagulant sludge characteristics on the efficiency of coagulants recovery by acidification. Environmental Technology (United Kingdom), 2012, 33, 2525-2530.	1.2	21
82	Novel Data Imputation for Multiple Types of Missing Data in Intensive Care Units. IEEE Journal of Biomedical and Health Informatics, 2019, 23, 1243-1250.	3.9	21
83	Development of a Laboratory Information System for Cancer Collaboration Projects. , 2005, 2005, 2859-62.		20
84	Current trends in molecular classification of adult renal tumors. Urology, 2006, 67, 873-880.	0.5	20
85	Histological Image Feature Mining Reveals Emergent Diagnostic Properties for Renal Cancer. , 2011, 2011, 422-425.		20
86	Reverse engineering biomolecular systems using -omic data: challenges, progress and opportunities. Briefings in Bioinformatics, 2012, 13, 430-445.	3.2	19
87	Did COVID-19 Affect Time to Presentation in the Setting of Pediatric Testicular Torsion?. Pediatric Emergency Care, 2021, 37, 123-125.	0.5	19
88	Impact of RNA-seq data analysis algorithms on gene expression estimation and downstream prediction. Scientific Reports, 2020, 10, 17925.	1.6	18
89	Automated Renal Cell Carcinoma Subtype Classification Using Morphological, Textural and Wavelets Based Features. Journal of Signal Processing Systems, 2009, 55, 15-23.	1.4	17
90	omniBiomarker: A Web-Based Application for Knowledge-Driven Biomarker Identification. IEEE Transactions on Biomedical Engineering, 2013, 60, 3364-3367.	2.5	16

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91	Explainable Sleep Stage Classification with Multimodal Electrophysiology Time-series. , 2021, 2021, 2363-2366.		16
92	Comparison of normalization algorithms for cross-batch color segmentation of histopathological images. , 2014, 2014, 194-7.		15
93	Effects of Sponsorship Disclosure on Perceived Integrity of Biased Recommendation Agents: Psychological Contract Violation and Knowledge-Based Trust Perspectives. Information Systems Research, 2019, 30, 507-522.	2.2	15
94	Improved Prediction on Heart Transplant Rejection Using Convolutional Autoencoder and Multiple Instance Learning on Whole-Slide Imaging. , 2019, 2019, .		15
95	Generating sub-30-nm polysilicon gates using PECVD amorphous carbon as hardmask and anti-reflective coating. , 2003, , .		14
96	Ethyl Acetate as a Pro-Reducing Agent in an One-Pot Reductive Deamination of Nitroanilines. Bulletin of the Chemical Society of Japan, 2004, 77, 1027-1028.	2.0	14
97	caREMOTE: The design of a cancer reporting and monitoring telemedicine system for domestic care. , 2011, 2011, 3168-71.		14
98	iACT - An interactive mHealth monitoring system to enhance psychotherapy for adolescents with sickle cell disease. , 2013, 2013, 2279-82.		14
99	Cardiovascular Transcriptomics and Epigenomics Using Next-Generation Sequencing. Circulation: Cardiovascular Genetics, 2014, 7, 701-710.	5.1	14
100	Predicting heart rejection using histopathological whole-slide imaging and deep neural network with dropout. , 2017, 2017, .		14
101	Inhibition and Crystal Structure of the Human DHTKD1-Thiamin Diphosphate Complex. ACS Chemical Biology, 2020, 15, 2041-2047.	1.6	14
102	Extraction of informative cell features by segmentation of densely clustered tissue images. , 2009, 2009, 6706-9.		13
103	caCORRECT2: Improving the accuracy and reliability of microarray data in the presence of artifacts. BMC Bioinformatics, 2011, 12, 383.	1.2	13
104	Cardiovascular Genomics: A Biomarker Identification Pipeline. IEEE Transactions on Information Technology in Biomedicine, 2012, 16, 809-822.	3.6	13
105	Robust Microarray Meta-Analysis Identifies Differentially Expressed Genes for Clinical Prediction. Scientific World Journal, The, 2012, 2012, 1-9.	0.8	13
106	Detection of blur artifacts in histopathological whole-slide images of endomyocardial biopsies. , 2015, 2015, 727-30.		13
107	Fusion In Breast Cancer Histology Classification. , 2019, 2019, 485-493.		13
108	Generating Region of Interests for Invasive Breast Cancer in Histopathological Whole-Slide-Image. , 2020, 2020, 723-728.		13

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109	An Analysis of Scale and Rotation Invariance in the Bag-of-Features Method for Histopathological Image Classification. Lecture Notes in Computer Science, 2011, 14, 66-74.	1.0	13
110	EXAM. , 2020, , .		13
111	Multivariate Analysis of Imaging Mass Spectrometry Data. , 2007, , .		12
112	Carcinoembryonic antigen as a vaccine target. Expert Review of Vaccines, 2008, 7, 987-993.	2.0	12
113	Editorial: Special Issue on Health Informatics and Personalized Medicine. IEEE Transactions on Biomedical Engineering, 2013, 60, 143-146.	2.5	12
114	A semi-supervised method for predicting cancer survival using incomplete clinical data. , 2015, 2015, 210-3.		12
115	A Novel Temporal Similarity Measure for Patients Based on Irregularly Measured Data in Electronic Health Records. , 2016, 2016, 337-344.		12
116	Prediction of heart transplant rejection using histopathological whole-slide imaging. , 2018, 2018, .		12
117	Improving Classification of Breast Cancer by Utilizing the Image Pyramids of Whole-Slide Imaging and Multi-scale Convolutional Neural Networks. , 2019, 2019, 696-703.		12
118	High speed processing of biomedical images using programmable gpu. , 0, , .		11
119	Hypergeometric Similarity Measure for Spatial Analysis in Tissue Imaging Mass Spectrometry. , 2011, 2011, 604-607.		11
120	Multivariate Hypergeometric Similarity Measure. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2013, 10, 1505-1516.	1.9	11
121	Integration of multi-modal biomedical data to predict cancer grade and patient survival. , 2016, 2016, 577-580.		11
122	Intelligent Mortality Reporting With FHIR. IEEE Journal of Biomedical and Health Informatics, 2018, 22, 1583-1588.	3.9	11
123	Improving Validity of Cause of Death on Death Certificates. , 2018, 2018, 178-183.		11
124	A Novel Local Ablation Approach for Explaining Multimodal Classifiers. , 2021, , .		11
125	Simple quantification of multiplexed Quantum Dot staining in clinical tissue samples. , 2008, 2008, 1907-10.		10
126	SickleREMOTE: A two-way text messaging system for pediatric sickle cell disease patients. , 2012, 2012, 408-411.		10

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127	The impact of RNA-seq aligners on gene expression estimation. , 2015, 2015, 462-471.		10
128	CAESNet: Convolutional AutoEncoder based Semi-supervised Network for improving multiclass classification of endomicroscopic images. Journal of the American Medical Informatics Association: JAMIA, 2019, 26, 1286-1296.	2.2	10
129	An Integrated Deep Network for Cancer Survival Prediction Using Omics Data. Frontiers in Big Data, 2021, 4, 568352.	1.8	10
130	A FHIR-compliant Application for Multi-Site and Multi-Modality Pediatric Scoliosis Patient Rehabilitation. , 2021, , .		10
131	Using Particle Filter to Track and Model Microtubule Dynamics. , 2007, , .		9
132	Improving renal cell carcinoma classification by automatic region of interest selection. , 2008, 2008, .		9
133	Pan-cancer analysis for studying cancer stage using protein and gene expression data. , 2016, 2016, 2440-2443.		9
134	11C-PIB PET image analysis for Alzheimer's diagnosis using weighted voting ensembles. , 2017, 2017, 3914-3917.		9
135	Feature Exploration and Causal Inference on Mortality of Epilepsy Patients Using Insurance Claims Data. , 2019, 2019, .		9
136	Improvement of SVM Algorithm for Microarray Analysis Using Intelligent Parameter Selection. , 2005, 2005, 4838-41.		8
137	Automated classification of renal cell carcinoma subtypes using scale invariant feature transform. , 2009, 2009, 6687-90.		8
138	Adaptive Control Model Reveals Systematic Feedback and Key Molecules in Metabolic Pathway Regulation. Journal of Computational Biology, 2011, 18, 169-182.	0.8	8
139	Comparison of clustering pipelines for the analysis of mass spectrometry imaging data. , 2014, 2014, 4771-4.		8
140	A Translational Pipeline for Overall Survival Prediction of Breast Cancer Patients by Decision-Level Integration of Multi-Omics Data. , 2019, 2019, 1573-1580.		8
141	Personal exposure to fine particulate matter (PM2.5) of pregnant women during three trimesters in rural Yunnan of China. Environmental Pollution, 2020, 256, 113055.	3.7	8
142	A Gradient-based Approach for Explaining Multimodal Deep Learning Classifiers. , 2021, , .		8
143	Coronavirus Disease 2019 Temperature Trajectories Correlate With Hyperinflammatory and Hypercoagulable Subphenotypes. Critical Care Medicine, 2022, 50, 212-223.	0.4	8
144	Dynamic pathway modeling of sphingolipid metabolism. , 2004, 2004, 2913-6.		7

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145	Computer Assisted Analysis of Microtubule Dynamics in Living Cells. , 2005, 2005, 3982-5.		7
146	Extending Microarray Quality Control and Analysis Algorithms to Illumina Chip Platform. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 4637-40.	0.5	7
147	Automated classification of renal cell carcinoma subtypes using bag-of-features. , 2010, 2010, 6749-52.		7
148	Activity and school attendance monitoring system for adolescents with Sickle cell disease. , 2012, 2012, 2456-9.		7
149	The effect of human genome annotation complexity on RNA-Seq gene expression quantification. , 2012, 2012, 712-717.		7
150	Scale normalization of histopathological images for batch invariant cancer diagnostic models. , 2012, 2012, 4406-9.		7
151	Investigation of factors affecting RNA-seq gene expression calls. , 2014, 2014, 5232-5.		7
152	Models for Predicting Stage in Head and Neck Squamous Cell Carcinoma Using Proteomic and Transcriptomic Data. IEEE Journal of Biomedical and Health Informatics, 2017, 21, 246-253.	3.9	7
153	Combination of static and temporal data analysis to predict mortality and readmission in the intensive care. , 2017, 2017, 2570-2573.		7
154	Improving the efficiency of biomarker identification using biological knowledge. Pacific Symposium on Biocomputing Pacific Symposium on Biocomputing, 2009, , 427-38.	0.7	7
155	Proposing Causal Sequence of Death by Neural Machine Translation in Public Health Informatics. IEEE Journal of Biomedical and Health Informatics, 2022, 26, 1422-1431.	3.9	7
156	Reproducibility of Differential Gene Detection across Multiple Microarray Studies. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 4231-4.	0.5	6
157	Modified Genetic Algorithm for Parameter Selection of Compartmental Models. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 143-6.	0.5	6
158	IMPROVING THE EFFICIENCY OF BIOMARKER IDENTIFICATION USING BIOLOGICAL KNOWLEDGE. , 2008, , .		6
159	Feasibility analysis of high resolution tissue image registration using 3-D synthetic data. Journal of Pathology Informatics, 2012, 2, 6.	0.8	6
160	An integrative approach for the large-scale identification of human genome kinases regulating cancer metastasis. Nanomedicine: Nanotechnology, Biology, and Medicine, 2013, 9, 732-736.	1.7	6
161	Mining Association Rules for Neurobehavioral and Motor Disorders in Children Diagnosed with Cerebral Palsy. , 2013, 2013, 258-263.		6
162	Biomedical Big Data Analytics for Patient-Centric and Outcome-Driven Precision Health. , 2015, , .		6

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163	Intelligent mortality reporting with FHIR. , 2017, 2017, 181-184.		6
164	COVID-19 diagnosis using model agnostic meta-learning on limited chest X-ray images. , 2021, , .		6
165	PHARM - Association Rule Mining for Predictive Health. IFMBE Proceedings, 2014, 42, 114-117.	0.2	6
166	Automated Classification of Acute Rejection from Endomyocardial Biopsies. , 2020, , .		6
167	Mitigating Patient-to-Patient Variation in EEG Seizure Detection using Meta Transfer Learning. , 2020, , .		6
168	Towards Effective Web Site Designs: A Framework for Modeling, Design Evaluation and Enhancement. , 0, , .		5
169	Selecting Clinically-Driven Biomarkers for Cancer Nanotechnology. , 2006, 2006, 3317-20.		5
170	Exploration of Quantitative Scoring Metrics to Compare Systems Biology Modeling Approaches. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 1121-4.	0.5	5
171	Biomedical Nanotechnology With Bioinformaticsâ€"The Promise and Current Progress. Proceedings of the IEEE, 2007, 95, 1386-1389.	16.4	5
172	Quantitative analysis of numerical solvers for oscillatory biomolecular system models. BMC Bioinformatics, 2008, 9, S17.	1.2	5
173	A fast least-squares algorithm for population inference. BMC Bioinformatics, 2013, 14, 28.	1.2	5
174	Semantic interpretation of robust imaging features for Fuhrman grading of renal carcinoma. , 2014, 2014, 6446-9.		5
175	Guest Editorial: Computational Solutions to Large-Scale Data Management and Analysis in Translational and Personalized Medicine. IEEE Journal of Biomedical and Health Informatics, 2014, 18, 720-721.	3.9	5
176	Developing robust predictive models for head and neck cancer across microarray and RNA-seq data. , 2015, 2015, 393-402.		5
177	Integration of multimodal RNA-seq data for prediction of kidney cancer survival. , 2015, 2015, 1591-1595.		5
178	DetectTLC: Automated Reaction Mixture Screening Utilizing Quantitative Mass Spectrometry Image Features. Journal of the American Society for Mass Spectrometry, 2016, 27, 359-365.	1.2	5
179	Improving Heart Transplant Rejection Classification Training using Progressive Generative Adversarial Networks. , 2021, , .		5
180	Computationally Predicting Rate Constants in Pathway Models. , 2005, 2005, 5093-6.		4

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181	Development of an automatic quantification method for cancer tissue microarray study. , 2009, 2009, 3665-8.		4
182	Evaluation of normalization methods for RNA-Seq gene expression estimation. , 2011, 2011, 50-57.		4
183	Exploration of genomic, proteomic, and histopathological image data integration methods for clinical prediction. , 2013, 2013, 259-263.		4
184	Improving personalized clinical risk prediction based on causality-based association rules. , 2015, 2015, 386-392.		4
185	Evaluating the impact of sequencing error correction for RNA-seq data with ERCC RNA spike-in controls. , 2016, 2016, 74-77.		4
186	Infer Cause of Death for Population Health Using Convolutional Neural Network. , 2017, 2017, 526-535.		4
187	MotifMark: Finding regulatory motifs in DNA sequences. , 2017, 2017, 3890-3893.		4
188	Hybrid Modeling of Ebola Propagation. , 2019, 2019, 204-210.		4
189	Automated Risk Assessment of COVID-19 Patients at Diagnosis Using Electronic Healthcare Records. , 2021, , .		4
190	A High-Resolution Tile-Based Approach for Classifying Biological Regions in Whole-Slide Histopathological Images. IFMBE Proceedings, 2014, 42, 280-283.	0.2	4
191	Computational Modeling of A Metabolic Pathway in Ceramide de novo Synthesis. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 1405-8.	0.5	3
192	Improved Bolstering Error Estimation for Gene Ranking. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 4633-6.	0.5	3
193	An interactive visualization tool and data model for experimental design in systems biology. , 2008, 2008, 2423-6.		3
194	In the Spotlight: Bioinformatics, Computational Biology and Systems Biology. IEEE Reviews in Biomedical Engineering, 2011, 4, 3-5.	13.1	3
195	Win percentage: a novel measure for assessing the suitability of machine classifiers for biological problems. BMC Bioinformatics, 2012, 13, S7.	1.2	3
196	MotionTalk. , 2014, 2014, 455-463.		3
197	icuARM-II. , 2014, 2014, 211-219.		3
198	Pan-cancer analysis for studying cancer stage using protein expression data. , 2015, 2015, 8189-92.		3

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199	CAS Center for Excellence in Quantum Information and Quantum Physics: exploring frontiers of quantum physics and quantum technology. National Science Review, 2017, 4, 144-152.	4.6	3
200	Improving multi-class classification for endomicroscopic images by semi-supervised learning. , 2017, 2017, .		3
201	Learning from Heterogeneous Data via Contrastive Learning: An Application in Multi-Source COVID-19 Radiography. , 2021, , .		3
202	TLSurv. , 2020, , .		3
203	Domain Adaptation Using Convolutional Autoencoder and Gradient Boosting for Adverse Events Prediction in the Intensive Care Unit. Frontiers in Artificial Intelligence, 2022, 5, 640926.	2.0	3
204	An Integrated Cancer Biomarker Information System. , 2005, 2005, 2851-4.		2
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