

Sungroh Yoon

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

95
papers

2,120
citations

21
h-index

44
g-index

109
ext. papers

3,006
ext. citations

7
avg, IF

5.79
L-index

#	Paper	IF	Citations
95	Deep learning in bioinformatics. <i>Briefings in Bioinformatics</i> , 2017 , 18, 851-869	13.4	544
94	Deep learning improves prediction of CRISPR-Cpf1 guide RNA activity. <i>Nature Biotechnology</i> , 2018 , 36, 239-241	44.5	137
93	Got target? Computational methods for microRNA target prediction and their extension. <i>Experimental and Molecular Medicine</i> , 2010 , 42, 233-44	12.8	118
92	How Generative Adversarial Networks and Their Variants Work. <i>ACM Computing Surveys</i> , 2019 , 52, 1-43	13.4	106
91	Prediction of regulatory modules comprising microRNAs and target genes. <i>Bioinformatics</i> , 2005 , 21 Suppl 2, ii93-100	7.2	99
90	Predicting the efficiency of prime editing guide RNAs in human cells. <i>Nature Biotechnology</i> , 2021 , 39, 198-206	44.5	68
89	High-throughput analysis of the activities of xCas9, SpCas9-NG and SpCas9 at matched and mismatched target sequences in human cells. <i>Nature Biomedical Engineering</i> , 2020 , 4, 111-124	19	60
88	Biometric Authentication Using Noisy Electrocardiograms Acquired by Mobile Sensors. <i>IEEE Access</i> , 2016 , 4, 1266-1273	3.5	58
87	Prediction of the sequence-specific cleavage activity of Cas9 variants. <i>Nature Biotechnology</i> , 2020 , 38, 1328-1336	44.5	57
86	Computational identification of microRNAs and their targets. <i>Birth Defects Research Part C: Embryo Today Reviews</i> , 2006 , 78, 118-28		53
85	SpCas9 activity prediction by DeepSpCas9, a deep learning-based model with high generalization performance. <i>Science Advances</i> , 2019 , 5, eaax9249	14.3	52
84	LncRNA-net: long non-coding RNA identification using deep learning. <i>Bioinformatics</i> , 2018 , 34, 3889-3897	7.2	46
83	Discovering coherent biclusters from gene expression data using zero-suppressed binary decision diagrams. <i>IEEE/ACM Transactions on Computational Biology and Bioinformatics</i> , 2005 , 2, 339-54	3	38
82	DUDE-Seq: Fast, flexible, and robust denoising for targeted amplicon sequencing. <i>PLoS ONE</i> , 2017 , 12, e0181463	3.7	38
81	deepTarget 2016 ,		38
80	CASPER: context-aware scheme for paired-end reads from high-throughput amplicon sequencing. <i>BMC Bioinformatics</i> , 2014 , 15 Suppl 9, S10	3.6	33
79	Sequence-specific prediction of the efficiencies of adenine and cytosine base editors. <i>Nature Biotechnology</i> , 2020 , 38, 1037-1043	44.5	32

78	Large-scale machine learning of media outlets for understanding public reactions to nation-wide viral infection outbreaks. <i>Methods</i> , 2017 , 129, 50-59	4.6	29
77	Fast and Efficient Information Transmission with Burst Spikes in Deep Spiking Neural Networks 2019 ,		28
76	Comprehensive ensemble in QSAR prediction for drug discovery. <i>BMC Bioinformatics</i> , 2019 , 20, 521	3.6	28
75	. <i>IEEE Access</i> , 2019 , 7, 185458-185468	3.5	21
74	IO Workload Characterization Revisited: A Data-Mining Approach. <i>IEEE Transactions on Computers</i> , 2014 , 63, 3026-3038	2.5	18
73	Clustering protein environments for function prediction: finding PROSITE motifs in 3D. <i>BMC Bioinformatics</i> , 2007 , 8 Suppl 4, S10	3.6	18
72	PuVAE: A Variational Autoencoder to Purify Adversarial Examples. <i>IEEE Access</i> , 2019 , 7, 126582-126593	3.5	17
71	Ensemble learning can significantly improve human microRNA target prediction. <i>Methods</i> , 2014 , 69, 220-226	3.6	16
70	DeepCCI 2017 ,		16
69	Entropy-based analysis and bioinformatics-inspired integration of global economic information transfer. <i>PLoS ONE</i> , 2013 , 8, e51986	3.7	16
68	Learned Embeddings from Deep Learning to Visualize and Predict Protein Sets. <i>Current Protocols</i> , 2021 , 1, e113		15
67	High-Dimensional Fused Lasso Regression Using Majorization-Minimization and Parallel Processing. <i>Journal of Computational and Graphical Statistics</i> , 2015 , 24, 121-153	1.4	13
66	Prediction of pathologic femoral fractures in patients with lung cancer using machine learning algorithms: Comparison of computed tomography-based radiological features with clinical features versus without clinical features. <i>Journal of Orthopaedic Surgery</i> , 2017 , 25, 2309499017716243	1.4	13
65	T2FSNN: Deep Spiking Neural Networks with Time-to-first-spike Coding 2020 ,		13
64	Frame-to-Frame Aggregation of Active Regions in Web Videos for Weakly Supervised Semantic Segmentation 2019 ,		13
63	. <i>IEEE Access</i> , 2021 , 9, 120043-120065	3.5	13
62	Recording of elapsed time and temporal information about biological events using Cas9. <i>Cell</i> , 2021 , 184, 1047-1063.e23	56.2	12
61	Deep learning based low-cost high-accuracy diagnostic framework for dementia using comprehensive neuropsychological assessment profiles. <i>BMC Geriatrics</i> , 2018 , 18, 234	4.1	12

60	. <i>IEEE Access</i> , 2019 , 7, 96495-96505	3.5	11
59	Application-Support Particle Filter for Dynamic Voltage Scaling of Multimedia Applications. <i>IEEE Transactions on Computers</i> , 2012 , 61, 1256-1269	2.5	10
58	Generation of a more efficient prime editor 2 by addition of the Rad51 DNA-binding domain. <i>Nature Communications</i> , 2021 , 12, 5617	17.4	10
57	Patch SVDD: Patch-Level SVDD for Anomaly Detection and Segmentation. <i>Lecture Notes in Computer Science</i> , 2021 , 375-390	0.9	10
56	Exploiting Compression-Induced Internal Fragmentation for Power-Off Recovery in SSD. <i>IEEE Transactions on Computers</i> , 2016 , 65, 1720-1733	2.5	9
55	Multi-Threaded Hierarchical Clustering by Parallel Nearest-Neighbor Chaining. <i>IEEE Transactions on Parallel and Distributed Systems</i> , 2015 , 26, 2534-2548	3.7	9
54	Single-image deblurring with neural networks: A comparative survey. <i>Computer Vision and Image Understanding</i> , 2021 , 203, 103134	4.3	9
53	The message passing neural networks for chemical property prediction on SMILES. <i>Methods</i> , 2020 , 179, 65-72	4.6	8
52	Co-clustering: a versatile tool for data analysis in biomedical informatics. <i>IEEE Transactions on Information Technology in Biomedicine</i> , 2007 , 11, 493-4		8
51	Adversarial Vertex Mixup: Toward Better Adversarially Robust Generalization 2020 ,		8
50	Large-Scale Structured Sparsity via Parallel Fused Lasso on Multiple GPUs. <i>Journal of Computational and Graphical Statistics</i> , 2017 , 26, 851-864	1.4	7
49	NC-Link: A New Linkage Method for Efficient Hierarchical Clustering of Large-Scale Data. <i>IEEE Access</i> , 2017 , 1-1	3.5	7
48	HiComet: a high-throughput comet analysis tool for large-scale DNA damage assessment. <i>BMC Bioinformatics</i> , 2018 , 19, 44	3.6	7
47	GPU-based acceleration of an RNA tertiary structure prediction algorithm. <i>Computers in Biology and Medicine</i> , 2013 , 43, 1011-22	7	7
46	Exome-based genome-wide association study and risk assessment using genetic risk score to prostate cancer in the Korean population. <i>Oncotarget</i> , 2017 , 8, 43934-43943	3.3	7
45	NAND Flash Memory With Multiple Page Sizes for High-Performance Storage Devices. <i>IEEE Transactions on Very Large Scale Integration (VLSI) Systems</i> , 2016 , 24, 764-768	2.6	6
44	Electroencephalographic Resting-State Functional Connectivity of Benign Epilepsy with Centrotemporal Spikes. <i>Journal of Clinical Neurology (Korea)</i> , 2019 , 15, 211-220	1.7	6
43	End-to-End Representation Learning for Chemical-Chemical Interaction Prediction. <i>IEEE/ACM Transactions on Computational Biology and Bioinformatics</i> , 2019 , 16, 1436-1447	3	6

42	Learning-Based Instantaneous Drowsiness Detection Using Wired and Wireless Electroencephalography. <i>IEEE Access</i> , 2019 , 7, 146390-146402	3.5	6
41	Prediction and Analysis of Human microRNA Regulatory Modules. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2005 , 2005, 4799-802		5
40	The use of exome genotyping to predict pathological Gleason score upgrade after radical prostatectomy in low-risk prostate cancer patients. <i>PLoS ONE</i> , 2014 , 9, e104146	3.7	5
39	Regularization and Kernelization of the Maximin Correlation Approach. <i>IEEE Access</i> , 2016 , 4, 1385-1392	3.5	4
38	Development and External Validation of the Korean Prostate Cancer Risk Calculator for High-Grade Prostate Cancer: Comparison with Two Western Risk Calculators in an Asian Cohort. <i>PLoS ONE</i> , 2017 , 12, e0168917	3.7	4
37	. <i>IEEE Access</i> , 2018 , 6, 27671-27680	3.5	4
36	Mining internet media for monitoring changes of public emotions about infectious diseases 2016 ,		3
35	Methodology for Big Data Analysis Using Data from National Health Insurance Service: Preliminary Methodologic Study and Review about the Relationship between Sinus Surgery and Asthma. <i>Journal of Rhinology</i> , 2015 , 22, 28		3
34	A clinicogenetic model to predict lymph node invasion by use of genome-based biomarkers from exome arrays in prostate cancer patients. <i>Korean Journal of Urology</i> , 2015 , 56, 109-16		3
33	Genetic risk score to predict biochemical recurrence after radical prostatectomy in prostate cancer: prospective cohort study. <i>Oncotarget</i> , 2017 , 8, 75979-75988	3.3	3
32	Interpretation of NLP models through input marginalization 2020 ,		3
31	Towards Fast and Accurate Object Detection in Bio-Inspired Spiking Neural Networks Through Bayesian Optimization. <i>IEEE Access</i> , 2021 , 9, 2633-2643	3.5	3
30	Pre-Training of Deep Bidirectional Protein Sequence Representations With Structural Information. <i>IEEE Access</i> , 2021 , 9, 123912-123926	3.5	3
29	Machine learning-based identification of endogenous cellular microRNA sponges against viral microRNAs. <i>Methods</i> , 2017 , 129, 33-40	4.6	2
28	CloudSocket: Smart grid platform for datacenters 2016 ,		2
27	Energy-Efficient Inference Accelerator for Memory-Augmented Neural Networks on an FPGA 2019 ,		2
26	AnomiGAN: Generative Adversarial Networks for Anonymizing Private Medical Data 2019 ,		2
25	SpCas9 activity prediction by DeepSpCas9, a deep learning-based model with unparalleled generalization performance		2

24	Protein transfer learning improves identification of heat shock protein families. <i>PLoS ONE</i> , 2021 , 16, e0251865	3.7	2
23	Feature Concentration for Supervised and Semisupervised Learning With Unbalanced Datasets in Visual Inspection. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 68, 7620-7630	8.9	2
22	Imbalanced Data Classification via Cooperative Interaction Between Classifier and Generator. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2021 , PP,	10.3	2
21	DNA Steganalysis Using Deep Recurrent Neural Networks 2018 ,		2
20	An effective pre-store/pre-load method exploiting intra-request idle time of NAND flash-based storage devices. <i>Microprocessors and Microsystems</i> , 2017 , 50, 222-236	2.4	1
19	Genome-wide detection of allelic genetic variation to predict biochemical recurrence after radical prostatectomy among prostate cancer patients using an exome SNP chip. <i>Journal of Cancer Research and Clinical Oncology</i> , 2015 , 141, 1493-501	4.9	1
18	Anomaly Detection by Learning Dynamics From a Graph. <i>IEEE Access</i> , 2020 , 8, 64356-64365	3.5	1
17	MUGAN: Multi-GPU accelerated AmpliconNoise server for rapid microbial diversity assessment. <i>Bioinformatics</i> , 2018 ,	7.2	1
16	Prediction of clinically significant prostate cancer using polygenic risk models in Asians.. <i>Investigative and Clinical Urology</i> , 2022 , 63, 42-52	1.9	1
15	A genetic variant in SLC28A3, rs56350726, is associated with progression to castration-resistant prostate cancer in a Korean population with metastatic prostate cancer. <i>Oncotarget</i> , 2017 , 8, 96893-96902	2.3	1
14	Development and Validation of a Next-Generation Sequencing-Based Multigene Assay to Predict the Prognosis of Estrogen Receptor-Positive, HER2-Negative Breast Cancer. <i>Clinical Cancer Research</i> , 2020 , 26, 6513-6522	12.9	1
13	DNA Privacy: Analyzing Malicious DNA Sequences using Deep Neural Networks. <i>IEEE/ACM Transactions on Computational Biology and Bioinformatics</i> , 2020 , PP,	3	1
12	Learn2Evade: Learning-Based Generative Model for Evading PDF Malware Classifiers. <i>IEEE Transactions on Artificial Intelligence</i> , 2021 , 1-1	4.7	1
11	. <i>IEEE Access</i> , 2021 , 9, 6453-6464	3.5	1
10	CloudSocket: Fine-Grained Power Sensing System for Datacenters. <i>IEEE Access</i> , 2018 , 6, 49601-49610	3.5	1
9	Flexible Dual-Branched Message-Passing Neural Network for a Molecular Property Prediction.. <i>ACS Omega</i> , 2022 , 7, 4234-4244	3.9	0
8	Memory-Augmented Neural Networks on FPGA for Real-Time and Energy-Efficient Question Answering. <i>IEEE Transactions on Very Large Scale Integration (VLSI) Systems</i> , 2021 , 29, 162-175	2.6	0
7	Genome-wide detection of allelic genetic variation to predict advanced-stage prostate cancer after radical prostatectomy using an exome SNP chip. <i>Urologic Oncology: Seminars and Original Investigations</i> , 2015 , 33, 385.e7-13	2.8	

- 6 Design of a bitmap-based QoS-aware memory controller for a packet memory. *IEICE Electronics Express*, **2014**, 11, 20130983-20130983 0.5
- 5 PixelSteganalysis: Pixel-wise Hidden Information Removal with Low Visual Degradation. *IEEE Transactions on Dependable and Secure Computing*, **2021**, 1-1 3.9
- 4 NASCUP: Nucleic Acid Sequence Classification by Universal Probability. *IEEE Access*, **2021**, 9, 162779-162791 3.5
- 3 60-2: Self-supervised Perceptual Motion Deblurring using a Conditional Generative Neural Network Guided by Optical Flow. *Digest of Technical Papers SID International Symposium*, **2020**, 51, 893-896 0.5
- 2 Compensating Nonuniform OLED Pixel Brightness in a Vertical Blanking Interval by Learning TFT Characteristics. *IEEE Transactions on Electron Devices*, **2021**, 68, 3396-3402 2.9
- 1 Data Embedding Scheme for Efficient Program Behavior Modeling With Neural Networks. *IEEE Transactions on Emerging Topics in Computational Intelligence*, **2022**, 1-12 4.1