

Jun S Song

List of Publications by Year in descending order

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106
papers

10,067
citations

81839

39
h-index

45285

90
g-index

131
all docs

131
docs citations

131
times ranked

20152
citing authors

#	ARTICLE	IF	CITATIONS
1	Spectral clustering of single-cell multi-omics data on multilayer graphs. <i>Bioinformatics</i> , 2022, 38, 3600-3608.	1.8	3
2	Measuring DNA mechanics on the genome scale. <i>Nature</i> , 2021, 589, 462-467.	13.7	81
3	Functional analysis of low-grade glioma genetic variants predicts key target genes and transcription factors. <i>Neuro-Oncology</i> , 2021, 23, 638-649.	0.6	9
4	Epigenomic tensor predicts disease subtypes and reveals constrained tumor evolution. <i>Cell Reports</i> , 2021, 34, 108927.	2.9	12
5	Predicting TCR-Epitope Binding Specificity Using Deep Metric Learning and Multimodal Learning. <i>Genes</i> , 2021, 12, 572.	1.0	20
6	Chd1 protects genome integrity at promoters to sustain hypertranscription in embryonic stem cells. <i>Nature Communications</i> , 2021, 12, 4859.	5.8	9
7	SOX10 Regulates Melanoma Immunogenicity through an IRF4-IRF1 Axis. <i>Cancer Research</i> , 2021, 81, 6131-6141.	0.4	31
8	ABC-GWAS: Functional Annotation of Estrogen Receptor-Positive Breast Cancer Genetic Variants. <i>Frontiers in Genetics</i> , 2020, 11, 730.	1.1	3
9	Single-Cell Profiling Reveals Divergent, Globally Patterned Immune Responses in Murine Skin Inflammation. <i>iScience</i> , 2020, 23, 101582.	1.9	30
10	Riemannian geometry and statistical modeling correct for batch effects and control false discoveries in single-cell surface protein count data. <i>Physical Review E</i> , 2020, 102, 012409.	0.8	1
11	Adult diffuse glioma GWAS by molecular subtype identifies variants in <i>D2HGDH</i> and <i>FAM20C</i> . <i>Neuro-Oncology</i> , 2020, 22, 1602-1613.	0.6	19
12	Epigenetic engineering of yeast reveals dynamic molecular adaptation to methylation stress and genetic modulators of specific DNMT3 family members. <i>Nucleic Acids Research</i> , 2020, 48, 4081-4099.	6.5	16
13	Knowledge-guided analysis of "omics" data using the KnowEnG cloud platform. <i>PLoS Biology</i> , 2020, 18, e3000583.	2.6	34
14	Abstract 1193: Adult diffuse glioma GWAS by molecular subtype identifies variants in <i>D2HGDH</i> , <i>FAM20C</i> and <i>GMEB2</i> . , 2020, , .		0
15	Single-Cell Transcriptomics Reveals Spatial and Temporal Turnover of Keratinocyte Differentiation Regulators. <i>Frontiers in Genetics</i> , 2019, 10, 775.	1.1	45
16	Targeted exon skipping with AAV-mediated split adenine base editors. <i>Cell Discovery</i> , 2019, 5, 41.	3.1	35
17	The Cancer-Associated Genetic Variant Rs3903072 Modulates Immune Cells in the Tumor Microenvironment. <i>Frontiers in Genetics</i> , 2019, 10, 754.	1.1	21
18	Measuring the Physical Properties of DNA on a Genomic Scale. <i>Biophysical Journal</i> , 2019, 116, 22a.	0.2	0

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19	SequencEnG: an interactive knowledge base of sequencing techniques. <i>Bioinformatics</i> , 2019, 35, 1438-1440.	1.8	3
20	Local genomic features predict the distinct and overlapping binding patterns of the bHLH-Zip family oncoproteins MITF and MYC-MAX. <i>Pigment Cell and Melanoma Research</i> , 2019, 32, 500-509.	1.5	13
21	Boosted Convolutional Decision Trees for Translationally Invariant Pattern Recognition and Transfer Learning. <i>International Journal of Statistics and Probability</i> , 2019, 8, 11.	0.1	0
22	Integrative Genomic Analysis Predicts Causative <i>Cis</i> -Regulatory Mechanisms of the Breast Cancer-Associated Genetic Variant rs4415084. <i>Cancer Research</i> , 2018, 78, 1579-1591.	0.4	35
23	Transcriptional Programming of Normal and Inflamed Human Epidermis at Single-Cell Resolution. <i>Cell Reports</i> , 2018, 25, 871-883.	2.9	206
24	Disruption of the β 1L Isoform of GABP Reverses Glioblastoma Replicative Immortality in a TERT Promoter Mutation-Dependent Manner. <i>Cancer Cell</i> , 2018, 34, 513-528.e8.	7.7	103
25	A unified computational framework for modeling genome-wide nucleosome landscape. <i>Physical Biology</i> , 2018, 15, 066011.	0.8	5
26	Quantum transport senses community structure in networks. <i>Physical Review E</i> , 2018, 98, 022301.	0.8	4
27	Exact Heat Kernel on a Hypersphere and Its Applications in Kernel SVM. <i>Frontiers in Applied Mathematics and Statistics</i> , 2018, 4, .	0.7	7
28	CRISPR-SKIP: programmable gene splicing with single base editors. <i>Genome Biology</i> , 2018, 19, 107.	3.8	137
29	Quantification of mammalian tumor cell state plasticity with digital holographic cytometry. , 2018, , .		2
30	ClusterEnG: an interactive educational web resource for clustering and visualizing high-dimensional data. <i>PeerJ Computer Science</i> , 2018, 4, e155.	2.7	8
31	Abstract 1220: Integrative genomic analysis discovers the causative regulatory mechanisms of a breast cancer-associated genetic variant. , 2018, , .		1
32	Tfe3 and Tfeb Transcriptionally Regulate Peroxisome Proliferator-Activated Receptor β 2 Expression in Adipocytes and Mediate Adiponectin and Glucose Levels in Mice. <i>Molecular and Cellular Biology</i> , 2017, 37, .	1.1	17
33	NF45 and NF90/NF110 coordinately regulate ESC pluripotency and differentiation. <i>Rna</i> , 2017, 23, 1270-1284.	1.6	19
34	High accuracy label-free classification of single-cell kinetic states from holographic cytometry of human melanoma cells. <i>Scientific Reports</i> , 2017, 7, 11943.	1.6	58
35	TeachEnG: a TeachEngineering Engine for Genomics. <i>Bioinformatics</i> , 2017, 33, 3296-3298.	1.8	10
36	Emergent community agglomeration from data set geometry. <i>Physical Review E</i> , 2017, 95, 042307.	0.8	1

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37	Maximum entropy methods for extracting the learned features of deep neural networks. PLoS Computational Biology, 2017, 13, e1005836.	1.5	35
38	CSIG-38. REVERSAL OF GLIOBLASTOMA REPLICATIVE IMMORTALITY IN A TERT PROMOTER MUTATION-DEPENDENT MANNER. Neuro-Oncology, 2017, 19, vi57-vi58.	0.6	0
39	CBIO-18. HAPLOINSUFFICIENCY OF THE REGULATOR OF THE MUTANT TERT PROMOTER REVERSES GLIOBLASTOMA REPLICATIVE IMMORTALITY. Neuro-Oncology, 2016, 18, vi39-vi39.	0.6	0
40	Intratumoral Heterogeneity of the Epigenome. Cancer Cell, 2016, 29, 440-451.	7.7	172
41	Quantitative analysis and prediction of G-quadruplex forming sequences in double-stranded DNA. Nucleic Acids Research, 2016, 44, 4807-4817.	6.5	20
42	Inhibition of mTOR induces a paused pluripotent state. Nature, 2016, 540, 119-123.	13.7	191
43	Sequence features accurately predict genome-wide MeCP2 binding in vivo. Nature Communications, 2016, 7, 11025.	5.8	46
44	YAP Induces Human Naive Pluripotency. Cell Reports, 2016, 14, 2301-2312.	2.9	157
45	Categorical spectral analysis of periodicity in nucleosomal DNA. Nucleic Acids Research, 2016, 44, 2047-2057.	6.5	26
46	Understanding TERT Promoter Mutations: A Common Path to Immortality. Molecular Cancer Research, 2016, 14, 315-323.	1.5	222
47	Abstract IA08: An epigenome perspective of human tumor evolution. , 2016, , .		0
48	GENO-07A MECHANISM OF MUTANT TERT PROMOTER ACTIVATION SHARED ACROSS CANCER TYPES. Neuro-Oncology, 2015, 17, v92.3-v92.	0.6	0
49	Transcription Factor Tfe3 Directly Regulates Pgcα in Muscle. Journal of Cellular Physiology, 2015, 230, 2330-2336.	2.0	33
50	Chd1 is essential for the high transcriptional output and rapid growth of the mouse epiblast. Development (Cambridge), 2015, 142, 118-127.	1.2	73
51	The Genetics of Splicing in Neuroblastoma. Cancer Discovery, 2015, 5, 380-395.	7.7	20
52	The Cancer Genome Atlas Analysis Predicts MicroRNA for Targeting Cancer Growth and Vascularization in Glioblastoma. Molecular Therapy, 2015, 23, 1234-1247.	3.7	62
53	HiTSelect: a comprehensive tool for high-complexity-pooled screen analysis. Nucleic Acids Research, 2015, 43, e16-e16.	6.5	56
54	The transcription factor GABP selectively binds and activates the mutant TERT promoter in cancer. Science, 2015, 348, 1036-1039.	6.0	451

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55	KnowEnG: a knowledge engine for genomics. Journal of the American Medical Informatics Association: JAMIA, 2015, 22, 1115-1119.	2.2	13
56	DNA Methylation and Somatic Mutations Converge on the Cell Cycle and Define Similar Evolutionary Histories in Brain Tumors. Cancer Cell, 2015, 28, 307-317.	7.7	221
57	Abstract B12: GABP selectively binds and activates the mutant TERT promoter across multiple cancer types. , 2015, , .		3
58	Quantifying the role of steric constraints in nucleosome positioning. Nucleic Acids Research, 2014, 42, 2147-2158.	6.5	13
59	EG-07 * CELL CYCLE SIGNATURE AND TUMOR PHYLOGENY ARE ENCODED IN THE EVOLUTIONARY DYNAMICS OF DNA METHYLATION IN GLIOMA. Neuro-Oncology, 2014, 16, v76-v76.	0.6	0
60	Mutational Analysis Reveals the Origin and Therapy-Driven Evolution of Recurrent Glioma. Science, 2014, 343, 189-193.	6.0	1,147
61	Recurrent epimutations activate gene body promoters in primary glioblastoma. Genome Research, 2014, 24, 761-774.	2.4	39
62	CLONAL EVOLUTION OF GLIOMAS IS ENCODED IN THE EVOLUTIONARY DYNAMICS OF DNA METHYLATION. Neuro-Oncology, 2014, 16, iii51-iii52.	0.6	0
63	Systematic Identification of Barriers to Human iPSC Generation. Cell, 2014, 158, 449-461.	13.5	86
64	Bivalent Chromatin Marks Developmental Regulatory Genes in the Mouse Embryonic Germline In Vivo. Cell Reports, 2013, 3, 1777-1784.	2.9	149
65	Somatic cells regulate maternal mRNA translation and developmental competence of mouse oocytes. Nature Cell Biology, 2013, 15, 1415-1423.	4.6	128
66	Oncogenic BRAF Regulates Oxidative Metabolism via PGC1 α and MITF. Cancer Cell, 2013, 23, 302-315.	7.7	689
67	<i>BCL2A1</i> is a lineage-specific antiapoptotic melanoma oncogene that confers resistance to BRAF inhibition. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 4321-4326.	3.3	200
68	Integration of Genome-wide Approaches Identifies lncRNAs of Adult Neural Stem Cells and Their Progeny In Vivo. Cell Stem Cell, 2013, 12, 616-628.	5.2	224
69	Categorical spectral analysis of periodicity in human and viral genomes. Nucleic Acids Research, 2013, 41, 1395-1405.	6.5	13
70	NSeq: a multithreaded Java application for finding positioned nucleosomes from sequencing data. Frontiers in Genetics, 2013, 3, 320.	1.1	12
71	Polycomb-Like 3 Promotes Polycomb Repressive Complex 2 Binding to CpG Islands and Embryonic Stem Cell Self-Renewal. PLoS Genetics, 2012, 8, e1002576.	1.5	85
72	YY1 Regulates Melanocyte Development and Function by Cooperating with MITF. PLoS Genetics, 2012, 8, e1002688.	1.5	45

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73	Sox1 marks an activated neural stem/progenitor cell in the hippocampus. <i>Development (Cambridge)</i> , 2012, 139, 3938-3949.	1.2	70
74	Sox1 marks an activated neural stem/progenitor cell in the hippocampus. <i>Development (Cambridge)</i> , 2012, 139, 4094-4094.	1.2	0
75	CHANCE: comprehensive software for quality control and validation of ChIP-seq data. <i>Genome Biology</i> , 2012, 13, R98.	13.9	60
76	Normalization, bias correction, and peak calling for ChIP-seq. <i>Statistical Applications in Genetics and Molecular Biology</i> , 2012, 11, Article 9.	0.2	90
77	Incomplete DNA methylation underlies a transcriptional memory of somatic cells in human iPSCs. <i>Nature Cell Biology</i> , 2011, 13, 541-549.	4.6	529
78	Negative Regulation of Tumor Suppressor p53 by MicroRNA miR-504. <i>Molecular Cell</i> , 2010, 38, 689-699.	4.5	285
79	Intronic miR-211 Assumes the Tumor Suppressive Function of Its Host Gene in Melanoma. <i>Molecular Cell</i> , 2010, 40, 841-849.	4.5	246
80	Lineage-Specific Transcriptional Regulation of DICER by MITF in Melanocytes. <i>Cell</i> , 2010, 141, 994-1005.	13.5	113
81	Identifying Positioned Nucleosomes with Epigenetic Marks in Human from ChIP-Seq. <i>BMC Genomics</i> , 2008, 9, 537.	1.2	122
82	Defining the rectal dose constraint for permanent radioactive seed implantation of the prostate. <i>Urologic Oncology: Seminars and Original Investigations</i> , 2008, 26, 147-152.	0.8	11
83	A high-resolution map of nucleosome positioning on a fission yeast centromere. <i>Genome Research</i> , 2008, 18, 1064-1072.	2.4	30
84	Chromatin structure analyses identify miRNA promoters. <i>Genes and Development</i> , 2008, 22, 3172-3183.	2.7	541
85	CCCTC-Binding Factor Confines the Distal Action of Estrogen Receptor. <i>Cancer Research</i> , 2008, 68, 9041-9049.	0.4	36
86	Nkx3-1 and LEF-1 Function as Transcriptional Inhibitors of Estrogen Receptor Activity. <i>Cancer Research</i> , 2008, 68, 7380-7385.	0.4	39
87	Systematic evaluation of variability in ChIP-chip experiments using predefined DNA targets. <i>Genome Research</i> , 2008, 18, 393-403.	2.4	117
88	Build-up and surface dose measurements on phantoms using micro-MOSFET in 6 and 10MV x-ray beams and comparisons with Monte Carlo calculations. <i>Medical Physics</i> , 2007, 34, 1266-1273.	1.6	41
89	Microarray blob-defect removal improves array analysis. <i>Bioinformatics</i> , 2007, 23, 966-971.	1.8	16
90	Model-based analysis of two-color arrays (MA2C). <i>Genome Biology</i> , 2007, 8, R178.	13.9	95

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91	Analytic computation of the expectation of the linkage disequilibrium coefficient. <i>Theoretical Population Biology</i> , 2007, 71, 49-60.	0.5	31
92	Variability Among Breast Radiation Oncologists in Delineation of the Postsurgical Lumpectomy Cavity. <i>International Journal of Radiation Oncology Biology Physics</i> , 2007, 67, 1299-1308.	0.4	191
93	Monte Carlo Calculation of Rectal Dose When Using an Intrarectal Balloon During Prostate Radiation Therapy. <i>Medical Dosimetry</i> , 2007, 32, 151-156.	0.4	9
94	High-throughput mapping of the chromatin structure of human promoters. <i>Nature Biotechnology</i> , 2007, 25, 244-248.	9.4	300
95	Genome-wide analysis of estrogen receptor binding sites. <i>Nature Genetics</i> , 2006, 38, 1289-1297.	9.4	1,227
96	CEAS: cis-regulatory element annotation system. <i>Nucleic Acids Research</i> , 2006, 34, W551-W554.	6.5	170
97	Dynamic IMRT Treatments of Sinus Region Tumors: Comparison of Monte Carlo Calculations with Treatment Planning System Calculations and Ion Chamber Measurements. <i>Technology in Cancer Research and Treatment</i> , 2006, 5, 489-495.	0.8	7
98	A comparative study of rectal dose histograms in prostate brachytherapy: Some analytic and numerical results. <i>Medical Physics</i> , 2005, 32, 437-447.	1.6	0
99	SU-FF-T-291: Monte Carlo Calculation of Rectal Dose When Using An Endorectal Balloon During Prostate Radiation Therapy. <i>Medical Physics</i> , 2005, 32, 2017-2017.	1.6	0
100	MO-D-T-617-07: Measurements of Surface Dose for 6MV and 10 MV X-Ray Beams Using Micro-MOSFET and Comparisons to Monte Carlo Skin Dose Calculations. <i>Medical Physics</i> , 2005, 32, 2061-2061.	1.6	0
101	On a conjecture of Givental. <i>Journal of Mathematical Physics</i> , 2004, 45, 4539-4550.	0.5	6
102	The Hurwitz enumeration problem of branched covers and Hodge integrals. <i>Journal of Geometry and Physics</i> , 2004, 50, 223-256.	0.7	13
103	Of McKay correspondence, non-linear sigma-model and conformal field theory. <i>Advances in Theoretical and Mathematical Physics</i> , 2000, 4, 747-789.	0.4	10
104	Three-dimensional Gorenstein singularities and $\widehat{SU(3)}$ modular invariants. <i>Advances in Theoretical and Mathematical Physics</i> , 2000, 4, 791-822.	0.4	4
105	Descendant Gromov-Witten invariants, simple Hurwitz numbers, and the Virasoro conjecture for \mathbb{P}^1 . <i>Advances in Theoretical and Mathematical Physics</i> , 1999, 3, 1721-1768.	0.4	2
106	Nucleosome positioning in promoters. , 0, , 47-59.		4