Jun S Song

List of Publications by Year
in descending order

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	Genome-wide analysis of estrogen receptor binding sites. Nature Genetics, 2006, 38, 1289-1297.	9.4	1,227
2	Mutational Analysis Reveals the Origin and Therapy-Driven Evolution of Recurrent Glioma. Science, 2014, 343, 189-193.	6.0	1,147
3	Oncogenic BRAF Regulates Oxidative Metabolism via PGC1Î± and MITF. Cancer Cell, 2013, 23, 302-315.	7.7	689
4	Chromatin structure analyses identify miRNA promoters. Genes and Development, 2008, 22, 3172-3183.	2.7	541
5	Incomplete DNA methylation underlies a transcriptional memory of somatic cells in human iPSÂcells. Nature Cell Biology, 2011, 13, 541-549.	4.6	529
6	The transcription factor GABP selectively binds and activates the mutant TERT promoter in cancer. Science, 2015, 348, 1036-1039.	6.0	451
7	High-throughput mapping of the chromatin structure of human promoters. Nature Biotechnology, 2007, 25, 244-248.	9.4	300
8	Negative Regulation of Tumor Suppressor p53 by MicroRNA miR-504. Molecular Cell, 2010, 38, 689-699.	4.5	285
9	Intronic miR-211 Assumes the Tumor Suppressive Function of Its Host Gene in Melanoma. Molecular Cell, 2010, 40, 841-849.	4.5	246
10	Integration of Genome-wide Approaches Identifies lncRNAs of Adult Neural Stem Cells and Their Progeny InÂVivo. Cell Stem Cell, 2013, 12, 616-628.	5.2	224
11	Understanding TERT Promoter Mutations: A Common Path to Immortality. Molecular Cancer Research, 2016, 14, 315-323.	1.5	222
12	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
13	Transcriptional Programming of Normal and Inflamed Human Epidermis at Single-Cell Resolution. Cell Reports, 2018, 25, 871-883.	2.9	206
14	<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
15	Variability Among Breast Radiation Oncologists in Delineation of the Postsurgical Lumpectomy Cavity. International Journal of Radiation Oncology Biology Physics, 2007, 67, 1299-1308.	0.4	191
16	Inhibition of mTOR induces a paused pluripotent state. Nature, 2016, 540, 119-123.	13.7	191
17	Intratumoral Heterogeneity of the Epigenome. Cancer Cell, 2016, 29, 440-451.	7.7	172
18	CEAS: cis-regulatory element annotation system. Nucleic Acids Research, 2006, 34, W551-W554.	6.5	170

#	ARTICLE	IF	CITATIONS
19	YAP Induces Human Naive Pluripotency. Cell Reports, 2016, 14, 2301-2312.	2.9	157
20	Bivalent Chromatin Marks Developmental Regulatory Genes in the Mouse Embryonic Germline InÂVivo. Cell Reports, 2013, 3, 1777-1784.	2.9	149
21	CRISPR-SKIP: programmable gene splicing with single base editors. Genome Biology, 2018, 19, 107.	3.8	137
22	Somatic cells regulate maternal mRNA translation and developmental competence of mouse oocytes. Nature Cell Biology, 2013, 15, 1415-1423.	4.6	128
23	Identifying Positioned Nucleosomes with Epigenetic Marks in Human from ChIP-Seq. BMC Genomics, 2008, 9, 537.	1.2	122
24	Systematic evaluation of variability in ChIP-chip experiments using predefined DNA targets. Genome Research, 2008, 18, 393-403.	2.4	117
25	Lineage-Specific Transcriptional Regulation of DICER by MITF in Melanocytes. Cell, 2010, 141, 994-1005.	13.5	113
26	Disruption of the Î²1L Isoform of GABP Reverses Glioblastoma Replicative Immortality in a TERT Promoter Mutation-Dependent Manner. Cancer Cell, 2018, 34, 513-528.e8.	7.7	103
27	Model-based analysis of two-color arrays (MA2C). Genome Biology, 2007, 8, R178.	13.9	95
28	Normalization, bias correction, and peak calling for ChIP-seq. Statistical Applications in Genetics and Molecular Biology, 2012, 11, Article 9.	0.2	90
29	Systematic Identification of Barriers to Human iPSC Generation. Cell, 2014, 158, 449-461.	13.5	86
30	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
31	Measuring DNA mechanics on the genome scale. Nature, 2021, 589, 462-467.	13.7	81
32	Chd1 is essential for the high transcriptional output and rapid growth of the mouse epiblast. Development (Cambridge), 2015, 142, 118-127.	1.2	73
33	Sox1 marks an activated neural stem/progenitor cell in the hippocampus. Development (Cambridge), 2012, 139, 3938-3949.	1.2	70
34	The Cancer Genome Atlas Analysis Predicts MicroRNA for Targeting Cancer Growth and Vascularization in Glioblastoma. Molecular Therapy, 2015, 23, 1234-1247.	3.7	62
35	CHANCE: comprehensive software for quality control and validation of ChIP-seq data. Genome Biology, 2012, 13, R98.	13.9	60
36	High accuracy label-free classification of single-cell kinetic states from holographic cytometry of human melanoma cells. Scientific Reports, 2017, 7, 11943.	1.6	58

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37	HiTSelect: a comprehensive tool for high-complexity-pooled screen analysis. Nucleic Acids Research, 2015, 43, e16-e16.	6.5	56
38	Sequence features accurately predict genome-wide MeCP2 binding in vivo. Nature Communications, 2016, 7, 11025.	5.8	46
39	YY1 Regulates Melanocyte Development and Function by Cooperating with MITF. PLoS Genetics, 2012, 8, e1002688.	1.5	45
40	Single-Cell Transcriptomics Reveals Spatial and Temporal Turnover of Keratinocyte Differentiation Regulators. Frontiers in Genetics, 2019, 10, 775.	1.1	45
41	Build-up and surface dose measurements on phantoms using micro-MOSFET in 6 and 10MV x-ray beams and comparisons with Monte Carlo calculations. Medical Physics, 2007, 34, 1266-1273.	1.6	41
42	Nkx3-1 and LEF-1 Function as Transcriptional Inhibitors of Estrogen Receptor Activity. Cancer Research, 2008, 68, 7380-7385.	0.4	39
43	Recurrent epimutations activate gene body promoters in primary glioblastoma. Genome Research, 2014, 24, 761-774.	2.4	39
44	CCCTC-Binding Factor Confines the Distal Action of Estrogen Receptor. Cancer Research, 2008, 68, 9041-9049.	0.4	36
45	Maximum entropy methods for extracting the learned features of deep neural networks. PLoS Computational Biology, 2017, 13, e1005836.	1.5	35
46	Integrative Genomic Analysis Predicts Causative *Cis*-Regulatory Mechanisms of the Breast Cancerâ€"Associated Genetic Variant rs4415084. Cancer Research, 2018, 78, 1579-1591.	0.4	35
47	Targeted exon skipping with AAV-mediated split adenine base editors. Cell Discovery, 2019, 5, 41.	3.1	35
48	Knowledge-guided analysis of "omics" data using the KnowEnG cloud platform. PLoS Biology, 2020, 18, e3000583.	2.6	34
49	Transcription Factor Tfe3 Directly Regulates Pgcâ€1alpha in Muscle. Journal of Cellular Physiology, 2015, 230, 2330-2336.	2.0	33
50	Analytic computation of the expectation of the linkage disequilibrium coefficient. Theoretical Population Biology, 2007, 71, 49-60.	0.5	31
51	SOX10 Regulates Melanoma Immunogenicity through an IRF4â€"IRF1 Axis. Cancer Research, 2021, 81, 6131-6141.	0.4	31
52	A high-resolution map of nucleosome positioning on a fission yeast centromere. Genome Research, 2008, 18, 1064-1072.	2.4	30
53	Single-Cell Profiling Reveals Divergent, Globally Patterned Immune Responses in Murine Skin Inflammation. IScience, 2020, 23, 101582.	1.9	30
54	Categorical spectral analysis of periodicity in nucleosomal DNA. Nucleic Acids Research, 2016, 44, 2047-2057.	6.5	26

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55	The Cancer-Associated Genetic Variant Rs3903072 Modulates Immune Cells in the Tumor Microenvironment. Frontiers in Genetics, 2019, 10, 754.	1.1	21
56	The Genetics of Splicing in Neuroblastoma. Cancer Discovery, 2015, 5, 380-395.	7.7	20
57	Quantitative analysis and prediction of G-quadruplex forming sequences in double-stranded DNA. Nucleic Acids Research, 2016, 44, 4807-4817.	6.5	20
58	Predicting TCR-Epitope Binding Specificity Using Deep Metric Learning and Multimodal Learning. Genes, 2021, 12, 572.	1.0	20
59	NF45 and NF90/NF110 coordinately regulate ESC pluripotency and differentiation. Rna, 2017, 23, 1270-1284.	1.6	19
60	Adult diffuse glioma GWAS by molecular subtype identifies variants in<i>D2HGDH</i>and<i>FAM20C</i>. Neuro-Oncology, 2020, 22, 1602-1613.	0.6	19
61	Tfe3 and Tfeb Transcriptionally Regulate Peroxisome Proliferator-Activated Receptor Î³2 Expression in Adipocytes and Mediate Adiponectin and Glucose Levels in Mice. Molecular and Cellular Biology, 2017, 37, .	1.1	17
62	Microarray blob-defect removal improves array analysis. Bioinformatics, 2007, 23, 966-971.	1.8	16
63	Epigenetic engineering of yeast reveals dynamic molecular adaptation to methylation stress and genetic modulators of specific DNMT3 family members. Nucleic Acids Research, 2020, 48, 4081-4099.	6.5	16
64	The Hurwitz enumeration problem of branched covers and Hodge integrals. Journal of Geometry and Physics, 2004, 50, 223-256.	0.7	13
65	Categorical spectral analysis of periodicity in human and viral genomes. Nucleic Acids Research, 2013, 41, 1395-1405.	6.5	13
66	Quantifying the role of steric constraints in nucleosome positioning. Nucleic Acids Research, 2014, 42, 2147-2158.	6.5	13
67	KnowEnG: a knowledge engine for genomics. Journal of the American Medical Informatics Association: JAMIA, 2015, 22, 1115-1119.	2.2	13
68	Local genomic features predict the distinct and overlapping binding patterns of the bHLHâ€Zip family oncoproteins MITF and MYCâ€MAX. Pigment Cell and Melanoma Research, 2019, 32, 500-509.	1.5	13
69	NSeq: a multithreaded Java application for finding positioned nucleosomes from sequencing data. Frontiers in Genetics, 2013, 3, 320.	1.1	12
70	Epigenomic tensor predicts disease subtypes and reveals constrained tumor evolution. Cell Reports, 2021, 34, 108927.	2.9	12
71	Defining the rectal dose constraint for permanent radioactive seed implantation of the prostate. Urologic Oncology: Seminars and Original Investigations, 2008, 26, 147-152.	0.8	11
72	TeachEnG: a <u>Teach</u>ing <u>En</u>gine for <u>G</u>enomics. Bioinformatics, 2017, 33, 3296-3298.	1.8	10

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73	Of McKay correspondence, non-linear sigma-model and conformal field theory. Advances in Theoretical and Mathematical Physics, 2000, 4, 747-789.	0.4	10
74	Monte Carlo Calculation of Rectal Dose When Using an Intrarectal Balloon During Prostate Radiation Therapy. Medical Dosimetry, 2007, 32, 151-156.	0.4	9
75	Functional analysis of low-grade glioma genetic variants predicts key target genes and transcription factors. Neuro-Oncology, 2021, 23, 638-649.	0.6	9
76	Chd1 protects genome integrity at promoters to sustain hypertranscription in embryonic stem cells. Nature Communications, 2021, 12, 4859.	5.8	9
77	ClusterEnG: an interactive educational web resource for clustering and visualizing high-dimensional data. PeerJ Computer Science, 2018, 4, e155.	2.7	8
78	Dynamic IMRT Treatments of Sinus Region Tumors: Comparison of Monte Carlo Calculations with Treatment Planning System Calculations and Ion Chamber Measurements. Technology in Cancer Research and Treatment, 2006, 5, 489-495.	0.8	7
79	Exact Heat Kernel on a Hypersphere and Its Applications in Kernel SVM. Frontiers in Applied Mathematics and Statistics, 2018, 4, .	0.7	7
80	On a conjecture of Givental. Journal of Mathematical Physics, 2004, 45, 4539-4550.	0.5	6
81	A unified computational framework for modeling genome-wide nucleosome landscape. Physical Biology, 2018, 15, 066011.	0.8	5
82	Nucleosome positioning in promoters. , 0, , 47-59.		4
83	Quantum transport senses community structure in networks. Physical Review E, 2018, 98, 022301.	0.8	4
84	Three-dimensional Gorenstein singularities and $\widehat{SU(3)}$ modular invariants. Advances in Theoretical and Mathematical Physics, 2000, 4, 791-822.	0.4	4
85	SequencEnG: an interactive knowledge base of sequencing techniques. Bioinformatics, 2019, 35, 1438-1440.	1.8	3
86	ABC-GWAS: Functional Annotation of Estrogen Receptor-Positive Breast Cancer Genetic Variants. Frontiers in Genetics, 2020, 11, 730.	1.1	3
87	Abstract B12: GABP selectively binds and activates the mutant TERT promoter across multiple cancer types. , 2015, , .		3
88	Spectral clustering of single-cell multi-omics data on multilayer graphs. Bioinformatics, 2022, 38, 3600-3608.	1.8	3
89	Quantification of mammalian tumor cell state plasticity with digital holographic cytometry. , 2018, , .		2
90	Descendant Gromov–Witten invariants, simple Hurwitz numbers, and the Virasoro conjecture for $\mathbb{P}^1$. Advances in Theoretical and Mathematical Physics, 1999, 3, 1721-1768.	0.4	2

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91	Emergent community agglomeration from data set geometry. Physical Review E, 2017, 95, 042307.	0.8	1
92	Riemannian geometry and statistical modeling correct for batch effects and control false discoveries in single-cell surface protein count data. Physical Review E, 2020, 102, 012409.	0.8	1
93	Abstract 1220: Integrative genomic analysis discovers the causative regulatory mechanisms of a breast cancer-associated genetic variant. , 2018, , .		1
94	A comparative study of rectal dose histograms in prostate brachytherapy: Some analytic and numerical results. Medical Physics, 2005, 32, 437-447.	1.6	0
95	Sox1 marks an activated neural stem/progenitor cell in the hippocampus. Development (Cambridge), 2012, 139, 4094-4094.	1.2	0
96	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
97	CLONAL EVOLUTION OF GLIOMAS IS ENCODED IN THE EVOLUTIONARY DYNAMICS OF DNA METHYLATION. Neuro-Oncology, 2014, 16, iii51-iii52.	0.6	0
98	GENO-07A MECHANISM OF MUTANT TERT PROMOTER ACTIVATION SHARED ACROSS CANCER TYPES. Neuro-Oncology, 2015, 17, v92.3-v92.	0.6	0
99	CBIO-18. HAPLOINSUFFICIENCY OF THE REGULATOR OF THE MUTANT TERT PROMOTER REVERSES GLIOBLASTOMA REPLICATIVE IMMORTALITY. Neuro-Oncology, 2016, 18, vi39-vi39.	0.6	0
100	CSIG-38. REVERSAL OF GLIOBLASTOMA REPLICATIVE IMMORTALITY IN AÂTERT PROMOTER MUTATION-DEPENDENT MANNER. Neuro-Oncology, 2017, 19, vi57-vi58.	0.6	0
101	Measuring the Physical Properties of DNA on a Genomic Scale. Biophysical Journal, 2019, 116, 22a.	0.2	0
102	SU-FF-T-291: Monte Carlo Calculation of Rectal Dose When Using An Endorectal Balloon During Prostate Radiation Therapy. Medical Physics, 2005, 32, 2017-2017.	1.6	0
103	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. Medical Physics, 2005, 32, 2061-2061.	1.6	0
104	Abstract IA08: An epigenome perspective of human tumor evolution. , 2016, , .		0
105	Boosted Convolutional Decision Trees for Translationally Invariant Pattern Recognition and Transfer Learning. International Journal of Statistics and Probability, 2019, 8, 11.	0.1	0
106	Abstract 1193: Adult diffuse glioma GWAS by molecular subtype identifies variants in D2HGDH, FAM20C and GMEB2. , 2020, , .		0