Qiang Yu

List of Publications by Year in descending order

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109 papers	8,484 citations	57758 44 h-index	46799 89 g-index
112 all docs	112 docs citations	112 times ranked	14738 citing authors

#	Article	IF	Citations
1	Improving Multispike Learning With Plastic Synaptic Delays. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 10254-10265.	11.3	5
2	Toward Efficient Processing and Learning With Spikes: New Approaches for Multispike Learning. IEEE Transactions on Cybernetics, 2022, 52, 1364-1376.	9.5	11
3	Constructing Accurate and Efficient Deep Spiking Neural Networks With Double-Threshold and Augmented Schemes. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 1714-1726.	11.3	23
4	Temporal Encoding and Multispike Learning Framework for Efficient Recognition of Visual Patterns. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 3387-3399.	11.3	5
5	Synaptic Learning With Augmented Spikes. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 1134-1146.	11.3	10
6	Colorectal cancer-associated fibroblasts promote metastasis by up-regulating LRG1 through stromal IL-6/STAT3 signaling. Cell Death and Disease, 2022, 13, 16.	6.3	36
7	Hypoxia induces HIF1Î±-dependent epigenetic vulnerability in triple negative breast cancer to confer immune effector dysfunction and resistance to anti-PD-1 immunotherapy. Nature Communications, 2022, 13, .	12.8	48
8	Robust Environmental Sound Recognition With Sparse Key-Point Encoding and Efficient Multispike Learning. IEEE Transactions on Neural Networks and Learning Systems, 2021, 32, 625-638.	11.3	15
9	Numerical Spiking Neural P Systems. IEEE Transactions on Neural Networks and Learning Systems, 2021, 32, 2443-2457.	11.3	42
10	Targeting the IRAK1â€“S100A9 Axis Overcomes Resistance to Paclitaxel in Nasopharyngeal Carcinoma. Cancer Research, 2021, 81, 1413-1425.	0.9	19
11	A Deep Spike Learning through Critical Time Points. , 2021, , .		1
12	Temporal Dependent Local Learning for Deep Spiking Neural Networks. , 2021, , .		7
13	Stromal induction of BRD4 phosphorylation Results in Chromatin Remodeling and BET inhibitor Resistance in Colorectal Cancer. Nature Communications, 2021, 12, 4441.	12.8	49
14	Targeting enhancer reprogramming to mitigate MEK inhibitor resistance in preclinical models of advanced ovarian cancer. Journal of Clinical Investigation, 2021, 131, .	8.2	6
15	Efficient learning with augmented spikes: A case study with image classification. Neural Networks, 2021, 142, 205-212.	5.9	4
16	CREBBP cooperates with the cell cycle machinery to attenuate chidamide sensitivity in relapsed/refractory diffuse large B-cell lymphoma. Cancer Letters, 2021, 521, 268-280.	7.2	10
17	Interleukin enhancerâ€binding factor 2 promotes cell proliferation and DNA damage response in metastatic melanoma. Clinical and Translational Medicine, 2021, 11, e608.	4.0	8
18	Inhibition of the PLK1â€Coupled Cell Cycle Machinery Overcomes Resistance to Oxaliplatin in Colorectal Cancer. Advanced Science, 2021, 8, e2100759.	11.2	29

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19	Gut stem cell aging is driven by mTORC1 via a p38 MAPK-p53 pathway. Nature Communications, 2020, 11, 37.	12.8	87
20	EZH2-mediated PP2A inactivation confers resistance to HER2-targeted breast cancer therapy. Nature Communications, 2020, 11, 5878.	12.8	29
21	Mesenchymal Stem Cell-Secreted Exosome Promotes Chemoresistance in Breast Cancer via Enhancing miR-21-5p-Mediated S100A6 Expression. Molecular Therapy - Oncolytics, 2020, 19, 283-293.	4.4	35
22	AugMapping: Accurate and Efficient Inference with Deep Double-Threshold Spiking Neural Networks. , 2020, , .		1
23	Brain-Inspired Framework for Image Classification with a New Unsupervised Matching Pursuit Encoding. Lecture Notes in Computer Science, 2020, , 208-219.	1.3	1
24	HER2-L755S mutation induces hyperactive MAPK and PI3K-mTOR signaling, leading to resistance to HER2 tyrosine kinase inhibitor treatment. Cell Cycle, 2019, 18, 1513-1522.	2.6	15
25	A Multi-spike Approach for Robust Sound Recognition. , 2019, , .		4
26	Methionine is a metabolic dependency of tumor-initiating cells. Nature Medicine, 2019, 25, 825-837.	30.7	226
27	A Matching Pursuit Approach for Image Classification with Spiking Neural Networks. , 2019, , .		0
28	An integrated system for robust gender classification with convolutional restricted Boltzmann machine and spiking neural network. , 2019, , .		2
29	Spike Timing or Rate? Neurons Learn to Make Decisions for Both Through Threshold-Driven Plasticity. IEEE Transactions on Cybernetics, 2019, 49, 2178-2189.	9.5	44
30	Robust Sound Event Classification with Local Time-Frequency Information and Convolutional Neural Networks. Lecture Notes in Computer Science, 2019, , 351-361.	1.3	0
31	The E3 Ligase RING1 Targets p53 for Degradation and Promotes Cancer Cell Proliferation and Survival. Cancer Research, 2018, 78, 359-371.	0.9	51
32	Inhibition of interleukin-1 receptor-associated kinase 1 (IRAK1) as a therapeutic strategy. Oncotarget, 2018, 9, 33416-33439.	1.8	107
33	KDM4B-regulated unfolded protein response as a therapeutic vulnerability in PTEN-deficient breast cancer. Journal of Experimental Medicine, 2018, 215, 2833-2849.	8.5	33
34	Hypoxic tumor microenvironment activates GLI2 via HIF-1Î± and TGF-Î²2 to promote chemoresistance in colorectal cancer. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E5990-E5999.	7.1	203
35	KDM6B Counteracts EZH2-Mediated Suppression of IGFBP5 to Confer Resistance to PI3K/AKT Inhibitor Treatment in Breast Cancer. Molecular Cancer Therapeutics, 2018, 17, 1973-1983.	4.1	35
36	Efficient Multi-spike Learning with Tempotron-Like LTP and PSD-Like LTD. Lecture Notes in Computer Science, 2018, , 545-554.	1.3	5

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37	Neuromorphic Cognitive Systems. Intelligent Systems Reference Library, 2017, , .	1.2	13
38	MiR-200a Regulates CDK4/6 Inhibitor Effect by Targeting CDK6 in MetastaticÂMelanoma. Journal of Investigative Dermatology, 2017, 137, 1955-1964.	0.7	32
39	Chromosome 1q21.3 amplification is a trackable biomarker and actionable target for breast cancer recurrence. Nature Medicine, 2017, 23, 1319-1330.	30.7	116
40	VHL Deficiency Drives Enhancer Activation of Oncogenes in Clear Cell Renal Cell Carcinoma. Cancer Discovery, 2017, 7, 1284-1305.	9.4	111
41	Pericyte-targeting prodrug overcomes tumor resistance to vascular disrupting agents. Journal of Clinical Investigation, 2017, 127, 3689-3701.	8.2	71
42	EZH2 phosphorylation by JAK3 mediates a switch to noncanonical function in natural killer/T-cell lymphoma. Blood, 2016, 128, 948-958.	1.4	110
43	Molecular switch of EZH2 in hypoxia. Cell Cycle, 2016, 15, 3007-3008.	2.6	6
44	HIFI-Î± activation underlies a functional switch in the paradoxical role of Ezh2/PRC2 in breast cancer. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E3735-44.	7.1	62
45	A Spiking Neural Network System for Robust Sequence Recognition. IEEE Transactions on Neural Networks and Learning Systems, 2016, 27, 621-635.	11.3	70
46	Preclinical pharmacokinetic studies of 3-deazaneplanocin A, a potent epigenetic anticancer agent, and its human pharmacokinetic prediction using GastroPlusâ„¢. European Journal of Pharmaceutical Sciences, 2015, 77, 290-302.	4.0	29
47	IRAK1 is a therapeutic target that drives breast cancer metastasis and resistance to paclitaxel. Nature Communications, 2015, 6, 8746.	12.8	125
48	3â€Deazaneplanocinâ€...A and Neplanocinâ€...A Analogues and Their Effects on Apoptotic Cell Death. ChemMedChem, 2015, 10, 173-182.	3.2	24
49	Elevated expression of long intergenic nonâ€coding RNA HOTAIR in a basalâ€like variant of MCFâ€7 breast cancer cells. Molecular Carcinogenesis, 2015, 54, 1656-1667.	2.7	35
50	Functional Characterization of D9, a Novel Deazaneplanocin A (DZNep) Analog, in Targeting Acute Myeloid Leukemia (AML). PLoS ONE, 2015, 10, e0122983.	2.5	18
51	The KDM2B- Let-7b -EZH2 Axis in Myelodysplastic Syndromes as a Target for Combined Epigenetic Therapy. PLoS ONE, 2014, 9, e107817.	2.5	27
52	Tumor Necrosis Factor-Î± and Apoptosis Induction in Melanoma Cells through Histone Modification by 3-Deazaneplanocin A. Journal of Investigative Dermatology, 2014, 134, 1470-1473.	0.7	3
53	Event-driven simulation of the tempotron spiking neuron. , 2014, , .		4
54	A new learning rule for classification of spatiotemporal spike patterns. , 2014, , .		0

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55	EZH2-Mediated Inactivation of IFN-Î³-JAK-STAT1 Signaling Is an Effective Therapeutic Target in MYC-Driven Prostate Cancer. Cell Reports, 2014, 8, 204-216.	6.4	87
56	Nanoscale chromatin profiling of gastric adenocarcinoma reveals cancer-associated cryptic promoters and somatically acquired regulatory elements. Nature Communications, 2014, 5, 4361.	12.8	72
57	RASAL2 activates RAC1 to promote triple-negative breast cancer progression. Journal of Clinical Investigation, 2014, 124, 5291-5304.	8.2	72
58	PDK1 Signaling Toward PLK1â€“MYC Activation Confers Oncogenic Transformation, Tumor-Initiating Cell Activation, and Resistance to mTOR-Targeted Therapy. Cancer Discovery, 2013, 3, 1156-1171.	9.4	119
59	Arginine Methylation-Dependent Reader-Writer Interplay Governs Growth Control by E2F-1. Molecular Cell, 2013, 52, 37-51.	9.7	119
60	Temporal coding of local spectrogram features for robust sound recognition. , 2013, , .		42
61	A bio-inspired feedforward system for categorization of AER motion events. , 2013, , .		4
62	EZH2 overexpression in natural killer/T-cell lymphoma confers growth advantage independently of histone methyltransferase activity. Blood, 2013, 121, 4512-4520.	1.4	131
63	Rapid Feedforward Computation by Temporal Encoding and Learning With Spiking Neurons. IEEE Transactions on Neural Networks and Learning Systems, 2013, 24, 1539-1552.	11.3	120
64	Protein tyrosine phosphatase UBASH3B is overexpressed in triple-negative breast cancer and promotes invasion and metastasis. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 11121-11126.	7.1	57
65	Precise-Spike-Driven Synaptic Plasticity: Learning Hetero-Association of Spatiotemporal Spike Patterns. PLoS ONE, 2013, 8, e78318.	2.5	137
66	Molecular mechanisms of tumor resistance to PI3K-mTOR-targeted therapy. Chinese Journal of Cancer, 2013, 32, 376-379.	4.9	32
67	Heterogeneous epigenetic regulation ofTIMP3in prostate cancer. Epigenetics, 2012, 7, 1279-1289.	2.7	34
68	TP53 Genomic Status Regulates Sensitivity of Gastric Cancer Cells to the Histone Methylation Inhibitor 3-Deazaneplanocin A (DZNep). Clinical Cancer Research, 2012, 18, 4201-4212.	7.0	65
69	Pattern recognition computation in a spiking neural network with temporal encoding and learning. , 2012, , .		6
70	Learning real-world stimuli by single-spike coding and tempotron rule. , 2012, , .		2
71	Glycine Decarboxylase Activity Drives Non-Small Cell Lung Cancer Tumor-Initiating Cells and Tumorigenesis. Cell, 2012, 148, 259-272.	28.9	593
72	Glycine Decarboxylase Activity Drives Non-Small Cell Lung Cancer Tumor-Initiating Cells and Tumorigenesis. Cell, 2012, 148, 1066.	28.9	12

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73	Loading 3-deazaneplanocin A into pegylated unilamellar liposomes by forming transient phenylboronic acidâ€"drug complex and its pharmacokinetic features in Sprague–Dawley rats. European Journal of Pharmaceutics and Biopharmaceutics, 2012, 80, 323-331.	4.3	15
74	A crucial role for bone morphogenetic protein-Smad1 signalling in the DNA damage response. Nature Communications, 2012, 3, 836.	12.8	41
75	TXNIP (VDUP-1, TBP-2): A major redox regulator commonly suppressed in cancer by epigenetic mechanisms. International Journal of Biochemistry and Cell Biology, 2011, 43, 1668-1673.	2.8	94
76	Context-Specific Regulation of NF-ÎºB Target Gene Expression by EZH2 in Breast Cancers. Molecular Cell, 2011, 43, 798-810.	9.7	338
77	Determinants of Sensitivity to DZNep Induced Apoptosis in Multiple Myeloma Cells. PLoS ONE, 2011, 6, e21583.	2.5	29
78	The histone methyltransferase inhibitor, DZNep, up-regulates TXNIP, increases ROS production, and targets leukemia cells in AML. Blood, 2011, 118, 2830-2839.	1.4	205
79	Quantification of 3-deazaneplanocin A, a novel epigenetic anticancer agent, in rat biosamples by hydrophilic interaction liquid chromatographyâ€"tandem mass spectrometric detection. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2011, 879, 285-290.	2.3	7
80	FOXQ1 Regulates Epithelial-Mesenchymal Transition in Human Cancers. Cancer Research, 2011, 71, 3076-3086.	0.9	153
81	PDK1-driven Myc signaling regulates cellular response to mTOR inhibitors. Cell Cycle, 2011, 10, 1019-1020.	2.6	1
82	B55Î² -Associated PP2A Complex Controls PDK1-Directed Myc Signaling and Modulates Rapamycin Sensitivity in Colorectal Cancer. Cancer Cell, 2010, 18, 459-471.	16.8	104
83	Systems Pharmacology in Cancer. , 2010, , 377-397.		0
84	miR-449 regulates CDK-Rb-E2F1 through an auto-regulatory feedback circuit. Cell Cycle, 2010, 9, 213-214.	2.6	35
85	Dual Regulation of Cdc25A by Chk1 and p53-ATF3 in DNA Replication Checkpoint Control. Journal of Biological Chemistry, 2009, 284, 4132-4139.	3.4	38
86	miR-449a and miR-449b are direct transcriptional targets of E2F1 and negatively regulate pRbâ€"E2F1 activity through a feedback loop by targeting CDK6 and CDC25A. Genes and Development, 2009, 23, 2388-2393.	5.9	242
87	Combinatorial pharmacologic approaches target EZH2-mediated gene repression in breast cancer cells. Molecular Cancer Therapeutics, 2009, 8, 3191-3202.	4.1	65
88	The E2F family and the role of E2F1 in apoptosis. International Journal of Biochemistry and Cell Biology, 2009, 41, 2389-2397.	2.8	57
89	BRCA1-deficient mammary tumor cells are dependent on EZH2 expression and sensitive to Polycomb Repressive Complex 2-inhibitor 3-deazaneplanocin A. Breast Cancer Research, 2009, 11, R63.	5.0	98
90	CDKN1C (p57KIP2) Is a Direct Target of EZH2 and Suppressed by Multiple Epigenetic Mechanisms in Breast Cancer Cells. PLoS ONE, 2009, 4, e5011.	2.5	155

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91	E2F1-Mediated Apoptosis as a Target of Cancer Therapy. Current Molecular Pharmacology, 2009, 2, 149-160.	1.5	18
92	DACT3 Is an Epigenetic Regulator of Wnt/Î²-Catenin Signaling in Colorectal Cancer and Is a Therapeutic Target of Histone Modifications. Cancer Cell, 2008, 13, 529-541.	16.8	216
93	Cancer gene silencing without DNA hypermethylation. Epigenetics, 2008, 3, 315-317.	2.7	8
94	Saturated Fatty Acids Modulate Cell Response to DNA Damage: Implication for Their Role in Tumorigenesis. PLoS ONE, 2008, 3, e2329.	2.5	63
95	Pharmacologic disruption of Polycomb-repressive complex 2-mediated gene repression selectively induces apoptosis in cancer cells. Genes and Development, 2007, 21, 1050-1063.	5.9	804
96	Ribosomal Protein S27-like, a p53-Inducible Modulator of Cell Fate in Response to Genotoxic Stress. Cancer Research, 2007, 67, 11317-11326.	0.9	56
97	c-Myc overexpression sensitizes Bim-mediated Bax activation for apoptosis induced by histone deacetylase inhibitor suberoylanilide hydroxamic acid (SAHA) through regulating Bcl-2/Bcl-xL expression. International Journal of Biochemistry and Cell Biology, 2007, 39, 1016-1025.	2.8	21
98	A Global Map of p53 Transcription-Factor Binding Sites in the Human Genome. Cell, 2006, 124, 207-219.	28.9	1,060
99	Restoring p53-mediated apoptosis in cancer cells: New opportunities for cancer therapy. Drug Resistance Updates, 2006, 9, 19-25.	14.4	71
100	Topotecan Is a Substrate for Multidrug Resistance Associated Protein 4. Current Drug Metabolism, 2006, 7, 105-118.	1.2	75
101	Apoptosis Signal-regulating Kinase 1 Is a Direct Target of E2F1 and Contributes to Histone Deacetylase Inhibitorinduced Apoptosis through Positive Feedback Regulation of E2F1 Apoptotic Activity. Journal of Biological Chemistry, 2006, 281, 10508-10515.	3.4	60
102	Pharmacologic Modulation of Glycogen Synthase Kinase-3Î² Promotes p53-Dependent Apoptosis through a Direct Bax-Mediated Mitochondrial Pathway in Colorectal Cancer Cells. Cancer Research, 2005, 65, 9012-9020.	0.9	115
103	Inhibitors of histone deacetylases target the Rb-E2F1 pathway for apoptosis induction through activation of proapoptotic protein Bim. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 16090-16095.	7.1	234
104	p53-regulated Transcriptional Program Associated with Genotoxic Stress-induced Apoptosis. Journal of Biological Chemistry, 2004, 279, 21183-21192.	3.4	133
105	Susceptibility to cell death induced by blockade of MAPK pathway in human colorectal cancer cells carrying Ras mutations is dependent on p53 status. Biochemical and Biophysical Research Communications, 2004, 322, 609-613.	2.1	18
106	NOVEL TARGETS IN THE CELL CYCLE AND CELL CYCLE CHECKPOINTS. , 2002, , 13-cp2.		5
107	Identification of Myc-mediated Death Response Pathways by Microarray Analysis. Journal of Biological Chemistry, 2002, 277, 13059-13066.	3.4	27
108	A truncated cytoplasmic topoisomerase IIÎ± in a drug-resistant lung cancer cell line is encoded by aTOP2A allele with a partial deletion of exon 34. , 2000, 85, 534-539.		20

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109	Two COOH-Terminal Truncated Cytoplasmic Forms of Topoisomerase IIÎ± in a VP-16-Selected Lung Cancer Cell Line Result from Partial Gene Deletion and Alternative Splicingâ€. Biochemistry, 1997, 36, 5868-5877.	2.5	30