

Jen-Tsan A Chi

List of Publications by Year in descending order

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Version: 2024-02-01

126
papers

12,973
citations

36303

51
h-index

24258

110
g-index

138
all docs

138
docs citations

138
times ranked

21254
citing authors

#	ARTICLE	IF	CITATIONS
1	Lysyl oxidase is essential for hypoxia-induced metastasis. <i>Nature</i> , 2006, 440, 1222-1226.	27.8	1,231
2	Diversity, topographic differentiation, and positional memory in human fibroblasts. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 12877-12882.	7.1	983
3	Gene Expression Signature of Fibroblast Serum Response Predicts Human Cancer Progression: Similarities between Tumors and Wounds. <i>PLoS Biology</i> , 2004, 2, e7.	5.6	824
4	Endothelial cell diversity revealed by global expression profiling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 10623-10628.	7.1	679
5	A viral microRNA functions as an orthologue of cellular miR-155. <i>Nature</i> , 2007, 450, 1096-1099.	27.8	541
6	Gene Expression Programs in Response to Hypoxia: Cell Type Specificity and Prognostic Significance in Human Cancers. <i>PLoS Medicine</i> , 2006, 3, e47.	8.4	536
7	Targeting GLUT1 and the Warburg Effect in Renal Cell Carcinoma by Chemical Synthetic Lethality. <i>Science Translational Medicine</i> , 2011, 3, 94ra70.	12.4	431
8	Systemic and cell type-specific gene expression patterns in scleroderma skin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 12319-12324.	7.1	385
9	microRNA miR-144 modulates oxidative stress tolerance and associates with anemia severity in sickle cell disease. <i>Blood</i> , 2010, 116, 4338-4348.	1.4	313
10	The Hippo Pathway Effector TAZ Regulates Ferroptosis in Renal Cell Carcinoma. <i>Cell Reports</i> , 2019, 28, 2501-2508.e4.	6.4	290
11	Genomewide view of gene silencing by small interfering RNAs. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 6343-6346.	7.1	283
12	Translocation of Sickle Cell Erythrocyte MicroRNAs into <i>Plasmodium falciparum</i> Inhibits Parasite Translation and Contributes to Malaria Resistance. <i>Cell Host and Microbe</i> , 2012, 12, 187-199.	11.0	272
13	Pleiotrophin regulates the expansion and regeneration of hematopoietic stem cells. <i>Nature Medicine</i> , 2010, 16, 475-482.	30.7	252
14	Glutamine Synthetase Is a Genetic Determinant of Cell Type-Specific Glutamine Independence in Breast Epithelia. <i>PLoS Genetics</i> , 2011, 7, e1002229.	3.5	232
15	Tumor Vasculature Is Regulated by PHD2-Mediated Angiogenesis and Bone Marrow-Derived Cell Recruitment. <i>Cancer Cell</i> , 2009, 15, 527-538.	16.8	209
16	The Genomic Analysis of Lactic Acidosis and Acidosis Response in Human Cancers. <i>PLoS Genetics</i> , 2008, 4, e1000293.	3.5	188
17	A TAZ-ANGPTL4-NOX2 Axis Regulates Ferroptotic Cell Death and Chemoresistance in Epithelial Ovarian Cancer. <i>Molecular Cancer Research</i> , 2020, 18, 79-90.	3.4	188
18	A paclitaxel-loaded recombinant polypeptide nanoparticle outperforms Abraxane in multiple murine cancer models. <i>Nature Communications</i> , 2015, 6, 7939.	12.8	173

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19	Acidosis induces reprogramming of cellular metabolism to mitigate oxidative stress. <i>Cancer & Metabolism</i> , 2013, 1, 23.	5.0	169
20	Kinome screen of ferroptosis reveals a novel role of ATM in regulating iron metabolism. <i>Cell Death and Differentiation</i> , 2020, 27, 1008-1022.	11.2	163
21	A joint analysis of metabolomics and genetics of breast cancer. <i>Breast Cancer Research</i> , 2014, 16, 415.	5.0	161
22	The Genomic Analysis of Erythrocyte microRNA Expression in Sickle Cell Diseases. <i>PLoS ONE</i> , 2008, 3, e2360.	2.5	157
23	A heterozygous <i>IDH1</i> ^{R132H/WT} mutation induces genome-wide alterations in DNA methylation. <i>Genome Research</i> , 2012, 22, 2339-2355.	5.5	157
24	Catabolism of Exogenous Lactate Reveals It as a Legitimate Metabolic Substrate in Breast Cancer. <i>PLoS ONE</i> , 2013, 8, e75154.	2.5	149
25	Suppression of PGC-1 β Is Critical for Reprogramming Oxidative Metabolism in Renal Cell Carcinoma. <i>Cell Reports</i> , 2015, 12, 116-127.	6.4	140
26	p38 β Mitogen-Activated Protein Kinase Is a Key Regulator in Skeletal Muscle Metabolic Adaptation in Mice. <i>PLoS ONE</i> , 2009, 4, e7934.	2.5	136
27	Acidosis Activation of the Proton-Sensing GPR4 Receptor Stimulates Vascular Endothelial Cell Inflammatory Responses Revealed by Transcriptome Analysis. <i>PLoS ONE</i> , 2013, 8, e61991.	2.5	127
28	Preoperative Single-Fraction Partial Breast Radiation Therapy: A Novel Phase 1, Dose-Escalation Protocol With Radiation Response Biomarkers. <i>International Journal of Radiation Oncology Biology Physics</i> , 2015, 92, 846-855.	0.8	113
29	Lactic Acidosis Triggers Starvation Response with Paradoxical Induction of TXNIP through MondoA. <i>PLoS Genetics</i> , 2010, 6, e1001093.	3.5	110
30	MESH1 is a cytosolic NADPH phosphatase that regulates ferroptosis. <i>Nature Metabolism</i> , 2020, 2, 270-277.	11.9	106
31	Automated Detection of <i>P. falciparum</i> Using Machine Learning Algorithms with Quantitative Phase Images of Unstained Cells. <i>PLoS ONE</i> , 2016, 11, e0163045.	2.5	103
32	Alternative Fuels for Cancer Cells. <i>Cancer Journal (Sudbury, Mass)</i> , 2015, 21, 49-55.	2.0	96
33	Alveolar rhabdomyosarcoma-associated PAX3-FOXO1 promotes tumorigenesis via Hippo pathway suppression. <i>Journal of Clinical Investigation</i> , 2014, 124, 285-296.	8.2	94
34	Functional Interaction between Responses to Lactic Acidosis and Hypoxia Regulates Genomic Transcriptional Outputs. <i>Cancer Research</i> , 2012, 72, 491-502.	0.9	93
35	Iron-Responsive miR-485-3p Regulates Cellular Iron Homeostasis by Targeting Ferroportin. <i>PLoS Genetics</i> , 2013, 9, e1003408.	3.5	92
36	A comprehensive joint analysis of the long and short RNA transcriptomes of human erythrocytes. <i>BMC Genomics</i> , 2015, 16, 952.	2.8	90

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37	Global identification of MLL2-targeted loci reveals MLL2's role in diverse signaling pathways. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 17603-17608.	7.1	89
38	Differential Effect of B Lymphocyte-induced Maturation Protein (Blimp-1) Expression on Cell Fate during B Cell Development. Journal of Experimental Medicine, 1998, 188, 515-525.	8.5	83
39	CYP27A1 Loss Dysregulates Cholesterol Homeostasis in Prostate Cancer. Cancer Research, 2017, 77, 1662-1673.	0.9	83
40	Nrf2 is the key to chemotherapy resistance in MCF7 breast cancer cells under hypoxia. Oncotarget, 2016, 7, 14659-14672.	1.8	83
41	Glycosylation of KEAP1 links nutrient sensing to redox stress signaling. EMBO Journal, 2017, 36, 2233-2250.	7.8	82
42	The Potential Role of Intrinsic Hypoxia Markers as Prognostic Variables in Cancer. Antioxidants and Redox Signaling, 2007, 9, 1237-1294.	5.4	81
43	Comprehensive Profiling of Amino Acid Response Uncovers Unique Methionine-Deprived Response Dependent on Intact Creatine Biosynthesis. PLoS Genetics, 2015, 11, e1005158.	3.5	79
44	Cystine Deprivation Triggers Programmed Necrosis in VHL-Deficient Renal Cell Carcinomas. Cancer Research, 2016, 76, 1892-1903.	0.9	72
45	Aspirin Exposure Reveals Novel Genes Associated With Platelet Function and Cardiovascular Events. Journal of the American College of Cardiology, 2013, 62, 1267-1276.	2.8	65
46	Modeling Cancer Progression via Pathway Dependencies. PLoS Computational Biology, 2008, 4, e28.	3.2	60
47	The Hippo Pathway Effector YAP Promotes Ferroptosis via the E3 Ligase SKP2. Molecular Cancer Research, 2021, 19, 1005-1014.	3.4	60
48	Cystine addiction of triple-negative breast cancer associated with EMT augmented death signaling. Oncogene, 2017, 36, 4235-4242.	5.9	59
49	Comprehensive analysis of the gene expression profiles in human gastric cancer cell lines. Oncogene, 2002, 21, 6549-6556.	5.9	58
50	Gene Expression Programs of Human Smooth Muscle Cells: Tissue-Specific Differentiation and Prognostic Significance in Breast Cancers. PLoS Genetics, 2007, 3, e164.	3.5	56
51	Regulation of ferroptosis in cancer cells by YAP/TAZ and Hippo pathways: The therapeutic implications. Genes and Diseases, 2021, 8, 241-249.	3.4	56
52	Analysis of tumor environmental response and oncogenic pathway activation identifies distinct basal and luminal features in HER2-related breast tumor subtypes. Breast Cancer Research, 2011, 13, R62.	5.0	54
53	Zinc transporter ZIP7 is a novel determinant of ferroptosis. Cell Death and Disease, 2021, 12, 198.	6.3	53
54	GNA13 loss in germinal center B cells leads to impaired apoptosis and promotes lymphoma in vivo. Blood, 2016, 127, 2723-2731.	1.4	52

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55	DDR2 upregulation confers ferroptosis susceptibility of recurrent breast tumors through the Hippo pathway. <i>Oncogene</i> , 2021, 40, 2018-2034.	5.9	52
56	Phase 1 Study of a Sulforaphane-Containing Broccoli Sprout Homogenate for Sickle Cell Disease. <i>PLoS ONE</i> , 2016, 11, e0152895.	2.5	51
57	Fluorescence-based measurement of cystine uptake through xCT shows requirement for ROS detoxification in activated lymphocytes. <i>Journal of Immunological Methods</i> , 2016, 438, 51-58.	1.4	49
58	Hippo pathway effectors YAP/TAZ as novel determinants of ferroptosis. <i>Molecular and Cellular Oncology</i> , 2020, 7, 1699375.	0.7	45
59	The HIF target MAFF promotes tumor invasion and metastasis through IL11 and STAT3 signaling. <i>Nature Communications</i> , 2021, 12, 4308.	12.8	45
60	Glycolysis-dependent histone deacetylase 4 degradation regulates inflammatory cytokine production. <i>Molecular Biology of the Cell</i> , 2014, 25, 3300-3307.	2.1	42
61	Latent Factor Analysis to Discover Pathway-Associated Putative Segmental Aneuploidies in Human Cancers. <i>PLoS Computational Biology</i> , 2010, 6, e1000920.	3.2	41
62	Whole blood gene expression analyses in patients with single versus recurrent venous thromboembolism. <i>Thrombosis Research</i> , 2011, 128, 536-540.	1.7	39
63	Syngeneic Murine Ovarian Cancer Model Reveals That Ascites Enriches for Ovarian Cancer Stem-Like Cells Expressing Membrane GRP78. <i>Molecular Cancer Therapeutics</i> , 2015, 14, 747-756.	4.1	38
64	ACLY and ACC1 Regulate Hypoxia-Induced Apoptosis by Modulating ETV4 via α -ketoglutarate. <i>PLoS Genetics</i> , 2015, 11, e1005599.	3.5	36
65	Hemoglobin consumption by <i>P. falciparum</i> in individual erythrocytes imaged via quantitative phase spectroscopy. <i>Scientific Reports</i> , 2016, 6, 24461.	3.3	35
66	Functional crosstalk among oxidative stress and O-GlcNAc signaling pathways. <i>Glycobiology</i> , 2018, 28, 556-564.	2.5	35
67	RIPK3 upregulation confers robust proliferation and collateral cystine-dependence on breast cancer recurrence. <i>Cell Death and Differentiation</i> , 2020, 27, 2234-2247.	11.2	35
68	27-Hydroxycholesterol Impairs Plasma Membrane Lipid Raft Signaling as Evidenced by Inhibition of IL6 \rightarrow JAK \rightarrow STAT3 Signaling in Prostate Cancer Cells. <i>Molecular Cancer Research</i> , 2020, 18, 671-684.	3.4	35
69	Fish oil slows prostate cancer xenograft growth relative to other dietary fats and is associated with decreased mitochondrial and insulin pathway gene expression. <i>Prostate Cancer and Prostatic Diseases</i> , 2013, 16, 285-291.	3.9	34
70	Single-Cell Analysis Reveals Distinct Gene Expression and Heterogeneity in Male and Female <i>Plasmodium falciparum</i> Gametocytes. <i>MSphere</i> , 2018, 3, .	2.9	33
71	Inhibiting xCT/SLC7A11 induces ferroptosis of myofibroblastic hepatic stellate cells but exacerbates chronic liver injury. <i>Liver International</i> , 2021, 41, 2214-2227.	3.9	31
72	Comparison of Genomics and Functional Imaging from Canine Sarcomas Treated with Thermoradiotherapy Predicts Therapeutic Response and Identifies Combination Therapeutics. <i>Clinical Cancer Research</i> , 2011, 17, 2549-2560.	7.0	30

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73	CoA synthase regulates mitotic fidelity via CBP-mediated acetylation. <i>Nature Communications</i> , 2018, 9, 1039.	12.8	30
74	Polysome profiling of the malaria parasite <i>Plasmodium falciparum</i> . <i>Molecular and Biochemical Parasitology</i> , 2011, 179, 42-46.	1.1	28
75	Discovery of Manassantin A Protein Targets Using Large-Scale Protein Folding and Stability Measurements. <i>Journal of Proteome Research</i> , 2016, 15, 2688-2696.	3.7	27
76	Contact lens management of infantile aphakia. <i>Australasian journal of optometry</i> , The, 2010, 93, 3-14.	1.3	26
77	FAS Death Receptor: A Breast Cancer Subtype-Specific Radiation Response Biomarker and Potential Therapeutic Target. <i>Radiation Research</i> , 2015, 184, 456.	1.5	26
78	The regulation of ferroptosis by MESH1 through the activation of the integrative stress response. <i>Cell Death and Disease</i> , 2021, 12, 727.	6.3	25
79	Isolation and Characterization of MicroRNAs of Human Mature Erythrocytes. <i>Methods in Molecular Biology</i> , 2010, 667, 193-203.	0.9	24
80	Time-dependent changes in non-COX-1-dependent platelet function with daily aspirin therapy. <i>Journal of Thrombosis and Thrombolysis</i> , 2012, 33, 246-257.	2.1	23
81	The Intersection of DNA Damage Response and Ferroptosis—A Rationale for Combination Therapeutics. <i>Biology</i> , 2020, 9, 187.	2.8	23
82	Combining biological gene expression signatures in predicting outcome in breast cancer: An alternative to supervised classification. <i>European Journal of Cancer</i> , 2008, 44, 2319-2329.	2.8	22
83	Quantitative phase imaging of erythrocytes under microfluidic constriction in a high refractive index medium reveals water content changes. <i>Microsystems and Nanoengineering</i> , 2019, 5, 63.	7.0	22
84	Latent transcriptional variations of individual <i>Plasmodium falciparum</i> uncovered by single-cell RNA-seq and fluorescence imaging. <i>PLoS Genetics</i> , 2019, 15, e1008506.	3.5	22
85	Metabolomic effects of androgen deprivation therapy treatment for prostate cancer. <i>Cancer Medicine</i> , 2020, 9, 3691-3702.	2.8	22
86	Single Cell Analysis of Stored Red Blood Cells Using Ultra-High Throughput Holographic Cytometry. <i>Cells</i> , 2021, 10, 2455.	4.1	22
87	Minimizing off-target effects by using diced siRNAs for RNA interference. <i>Journal of Rnai and Gene Silencing</i> , 2006, 2, 181-94.	1.2	22
88	Contextual tumor suppressor function of T cell death-associated gene 8 (TDAG8) in hematological malignancies. <i>Journal of Translational Medicine</i> , 2017, 15, 204.	4.4	20
89	Utilization of the <i>MyoD</i> -Myc Mouse to Model Heterogeneity of Therapeutic Response. <i>Molecular Cancer Therapeutics</i> , 2014, 13, 3219-3229.	4.1	19
90	Synthesis and Biological Evaluation of Manassantin Analogues for Hypoxia-Inducible Factor 1 α Inhibition. <i>Journal of Medicinal Chemistry</i> , 2015, 58, 7659-7671.	6.4	19

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91	C9a Promotes Breast Cancer Recurrence through Repression of a Pro-inflammatory Program. <i>Cell Reports</i> , 2020, 33, 108341.	6.4	19
92	Secreted Frizzled-Related Protein 3 (SFRP3) Is Required for Tumorigenesis of PAX3-FOXO1-Positive Alveolar Rhabdomyosarcoma. <i>Clinical Cancer Research</i> , 2015, 21, 4868-4880.	7.0	18
93	Trans-kingdom small RNA transfer during host-pathogen interactions: The case of <i>P. falciparum</i> and erythrocytes. <i>RNA Biology</i> , 2017, 14, 442-449.	3.1	18
94	Associations between Intake of Folate, Methionine, and Vitamins B-12, B-6 and Prostate Cancer Risk in American Veterans. <i>Journal of Cancer Epidemiology</i> , 2012, 2012, 1-9.	1.1	17
95	Non-canonical role of Hippo tumor suppressor serine/threonine kinase 3 STK3 in prostate cancer. <i>Molecular Therapy</i> , 2022, 30, 485-500.	8.2	17
96	Understanding the Tumor Microenvironment and Radioresistance by Combining Functional Imaging With Global Gene Expression. <i>Seminars in Radiation Oncology</i> , 2013, 23, 296-305.	2.2	16
97	E2F1-Mediated Induction of NFYB Attenuates Apoptosis via Joint Regulation of a Pro-Survival Transcriptional Program. <i>PLoS ONE</i> , 2015, 10, e0127951.	2.5	16
98	Whole blood gene expression profiles distinguish clinical phenotypes of venous thromboembolism. <i>Thrombosis Research</i> , 2015, 135, 659-665.	1.7	16
99	Ferroptosis of epithelial ovarian cancer: genetic determinants and therapeutic potential. <i>Oncotarget</i> , 2020, 11, 3562-3570.	1.8	16
100	Cross-Study Projections of Genomic Biomarkers: An Evaluation in Cancer Genomics. <i>PLoS ONE</i> , 2009, 4, e4523.	2.5	15
101	Single Cell RNA-Seq Analysis of Human Red Cells. <i>Frontiers in Physiology</i> , 2022, 13, 828700.	2.8	13
102	Glomeruloid microvascular proliferation is associated with lack of response to chemotherapy in breast cancer. <i>British Journal of Cancer</i> , 2011, 105, 9-12.	6.4	12
103	Modulation of PICALM Levels Perturbs Cellular Cholesterol Homeostasis. <i>PLoS ONE</i> , 2015, 10, e0129776.	2.5	12
104	Gigaxonin glycosylation regulates intermediate filament turnover and may impact giant axonal neuropathy etiology or treatment. <i>JCI Insight</i> , 2020, 5, .	5.0	10
105	An integrative analysis of cancer gene expression studies using Bayesian latent factor modeling. <i>Annals of Applied Statistics</i> , 2009, 3, 1675-1694.	1.1	9
106	Discovery, Genomic Analysis, and Functional Role of the Erythrocyte RNAs. <i>Current Pathobiology Reports</i> , 2017, 5, 43-48.	3.4	9
107	KEAP1 has a sweet spot: A new connection between intracellular glycosylation and redox stress signaling in cancer cells. <i>Molecular and Cellular Oncology</i> , 2017, 4, e1361501.	0.7	9
108	Angiogenin-mediated tRNA cleavage as a novel feature of stored red blood cells. <i>British Journal of Haematology</i> , 2019, 185, 760-764.	2.5	8

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109	Identification of Patients At High Risk for Recurrent Venous Thromboembolism by Whole Blood Gene Expression Analysis. <i>Blood</i> , 2011, 118, 2305-2305.	1.4	8
110	Metazoan stringent-like response mediated by MESH1 phenotypic conservation via distinct mechanisms. <i>Computational and Structural Biotechnology Journal</i> , 2022, 20, 2680-2684.	4.1	7
111	MESH1 knockdown triggers proliferation arrest through TAZ repression. <i>Cell Death and Disease</i> , 2022, 13, 221.	6.3	6
112	The influence of low-carbohydrate diets on the metabolic response to androgen deprivation therapy in prostate cancer. <i>Prostate</i> , 2021, 81, 618-628.	2.3	5
113	Serum metabolomic analysis of men on a low-carbohydrate diet for biochemically recurrent prostate cancer reveals the potential role of ketogenesis to slow tumor growth: a secondary analysis of the CAPS2 diet trial. <i>Prostate Cancer and Prostatic Diseases</i> , 2022, 25, 770-777.	3.9	5
114	Subtype-Specific Radiation Response and Therapeutic Effect of FAS Death Receptor Modulation in Human Breast Cancer. <i>Radiation Research</i> , 2017, 188, 169.	1.5	4
115	Unexpected zinc dependency of ferroptosis: what is in a name?. <i>Oncotarget</i> , 2021, 12, 1126-1127.	1.8	4
116	Biomimetic polydopamine-laced hydroxyapatite collagen material orients osteoclast behavior to an anti-resorptive pattern without compromising osteoclasts' coupling to osteoblasts. <i>Biomaterials Science</i> , 2021, 9, 7565-7574.	5.4	4
117	An unexpected alliance between stress responses to drive oncogenesis. <i>Breast Cancer Research</i> , 2014, 16, 471.	5.0	3
118	Nrf2 Contributes to the Poor Prognosis and Chemoresistance. , 2016, , .		2
119	Application of bioluminescence resonance energy transfer-based cell tracking approach in bone tissue engineering. <i>Journal of Tissue Engineering</i> , 2021, 12, 204173142199546.	5.5	2
120	A method to culture human alveolar rhabdomyosarcoma cell lines as rhabdospheres demonstrates an enrichment in stemness and notch signaling. <i>Biology Open</i> , 2021, 10, .	1.2	2
121	Editorial: Novel Insights Into Ferroptosis. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 754160.	3.7	2
122	High-throughput RNA interference. , 2005, , 470-479.		0
123	Methods to Investigate the Regulatory Role of Small RNAs and Ribosomal Occupancy of <i>Plasmodium falciparum</i> . <i>Journal of Visualized Experiments</i> , 2015, , e53214.	0.3	0
124	Whole Blood Gene Expression Profiles Distinguish Patients with Single Prior Venous Thromboembolism from Patients with Multiple Prior Events.. <i>Blood</i> , 2007, 110, 1630-1630.	1.4	0
125	The Role of Glutamine Synthetase in the Glutamine Independence in Mammary Tissue. , 2015, , 87-97.		0
126	Effects of Sulforaphane Obtained from Broccoli Sprout Homogenate in Patients with Sickle Cell Disease (SCD). <i>Blood</i> , 2014, 124, 4931-4931.	1.4	0