Liang-Chuan Lai

List of Publications by Year
in descending order

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123 papers	2,908 citations	218677 26 h-index	197818 49 g-index
126 all docs	126 docs citations	126 times ranked	5461 citing authors

#	Article	IF	Citations
1	miRSystem: An Integrated System for Characterizing Enriched Functions and Pathways of MicroRNA Targets. PLoS ONE, 2012, 7, e42390.	2.5	277
2	Identification of a Novel Biomarker, SEMA5A, for Nonâ€“Small Cell Lung Carcinoma in Nonsmoking Women. Cancer Epidemiology Biomarkers and Prevention, 2010, 19, 2590-2597.	2.5	270
3	Genomic Analyses of Anaerobically Induced Genes in Saccharomyces cerevisiae: Functional Roles of Rox1 and Other Factors in Mediating the Anoxic Response. Journal of Bacteriology, 2002, 184, 250-265.	2.2	218
4	IL-1Î²-driven neutrophilia preserves antibacterial defense in the absence of the kinase IKKÎ². Nature Immunology, 2011, 12, 144-150.	14.5	102
5	Deregulated microRNAs in triple-negative breast cancer revealed by deep sequencing. Molecular Cancer, 2015, 14, 36.	19.2	100
6	Metabolic-State-Dependent Remodeling of the Transcriptome in Response to Anoxia and Subsequent Reoxygenation in Saccharomyces cerevisiae. Eukaryotic Cell, 2006, 5, 1468-1489.	3.4	83
7	A whole genome methylation analysis of systemic lupus erythematosus: hypomethylation of the IL10 and IL1R2 promoters is associated with disease activity. Genes and Immunity, 2012, 13, 214-220.	4.1	79
8	Molecular Characteristics and Metastasis Predictor Genes of Triple-Negative Breast Cancer: A Clinical Study of Triple-Negative Breast Carcinomas. PLoS ONE, 2012, 7, e45831.	2.5	76
9	Dynamical Remodeling of the Transcriptome during Short-Term Anaerobiosis in Saccharomyces cerevisiae: Differential Response and Role of Msn2 and/or Msn4 and Other Factors in Galactose and Glucose Media. Molecular and Cellular Biology, 2005, 25, 4075-4091.	2.3	72
10	ADAM9 Promotes Lung Cancer Metastases to Brain by a Plasminogen Activator-Based Pathway. Cancer Research, 2014, 74, 5229-5243.	0.9	70
11	Integrated Analyses of Copy Number Variations and Gene Expression in Lung Adenocarcinoma. PLoS ONE, 2011, 6, e24829.	2.5	68
12	Concurrent Gene Signatures for Han Chinese Breast Cancers. PLoS ONE, 2013, 8, e76421.	2.5	65
13	Disease-Targeted Sequencing of Ion Channel Genes identifies de novo mutations in Patients with Non-Familial Brugada Syndrome. Scientific Reports, 2014, 4, 6733.	3.3	54
14	Sequence variants of interleukin 6 (IL-6) are significantly associated with a decreased risk of late-onset Alzheimer's disease. Journal of Neuroinflammation, 2012, 9, 21.	7.2	49
15	MicroRNA-449a Enhances Radiosensitivity in CL1-0 Lung Adenocarcinoma Cells. PLoS ONE, 2013, 8, e62383.	2.5	40
16	Identification of Gene Expression Biomarkers for Predicting Radiation Exposure. Scientific Reports, 2014, 4, 6293.	3.3	39
17	miR-338-5p inhibits cell proliferation, colony formation, migration and cisplatin resistance in esophageal squamous cancer cells by targeting FERMT2. Carcinogenesis, 2019, 40, 883-892.	2.8	38
18	DBCAT: Database of CpG Islands and Analytical Tools for Identifying Comprehensive Methylation Profiles in Cancer Cells. Journal of Computational Biology, 2011, 18, 1013-1017.	1.6	37

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19	ADAM9 promotes lung cancer progression through vascular remodeling by VEGFA, ANGPT2, and PLAT. Scientific Reports, 2017, 7, 15108.	3.3	37
20	The hypoxia-responsive lncRNANDRG-OT1promotes NDRG1 degradation via ubiquitin-mediated proteolysis in breast cancer cells. Oncotarget, 2018, 9, 10470-10482.	1.8	33
21	Semaphorin 6A Attenuates the Migration Capability of Lung Cancer Cells via the NRF2/HMOX1 Axis. Scientific Reports, 2019, 9, 13302.	3.3	33
22	Transcription of Tnfaip3 Is Regulated by NF-ÎºB and p38 via C/EBPÎ² in Activated Macrophages. PLoS ONE, 2013, 8, e73153.	2.5	32
23	Methylation in pericytes after acute injury promotes chronic kidney disease. Journal of Clinical Investigation, 2020, 130, 4845-4857.	8.2	32
24	ADAM9 Up-Regulates N-Cadherin via miR-218 Suppression in Lung Adenocarcinoma Cells. PLoS ONE, 2014, 9, e94065.	2.5	32
25	MicroRNA-769-3p Down-regulates NDRG1 and Enhances Apoptosis in MCF-7 Cells During Reoxygenation. Scientific Reports, 2014, 4, 5908.	3.3	31
26	Differential network analysis reveals the genome-wide landscape of estrogen receptor modulation in hormonal cancers. Scientific Reports, 2016, 6, 23035.	3.3	31
27	ADAM9 enhances CDCP1 protein expression by suppressing miR-218 for lung tumor metastasis. Scientific Reports, 2015, 5, 16426.	3.3	29
28	Hypoxia-Induced MALAT1 Promotes the Proliferation and Migration of Breast Cancer Cells by Sponging MiR-3064-5p. Frontiers in Oncology, 2021, 11, 658151.	2.8	29
29	ADAM9 enhances CDCP1 by inhibiting miR-1 through EGFR signaling activation in lung cancer metastasis. Oncotarget, 2017, 8, 47365-47378.	1.8	29
30	The potential roles of stem cell-derived extracellular vesicles as a therapeutic tool. Annals of Translational Medicine, 2019, 7, 693-693.	1.7	28
31	Identification of regulatory SNPs associated with genetic modifications in lung adenocarcinoma. BMC Research Notes, 2015, 8, 92.	1.4	27
32	Down-Regulation of NDRG1 Promotes Migration of Cancer Cells during Reoxygenation. PLoS ONE, 2011, 6, e24375.	2.5	26
33	SHANK3 Regulates Intestinal Barrier Function Through Modulating ZO-1 Expression Through the PKCÎµ-dependent Pathway. Inflammatory Bowel Diseases, 2017, 23, 1730-1740.	1.9	26
34	Genetic Polymorphisms of a Novel Vascular Susceptibility Gene, Ninjurin2 (NINJ2), Are Associated with a Decreased Risk of Alzheimer's Disease. PLoS ONE, 2011, 6, e20573.	2.5	25
35	Identification of Prognostic Genes for Recurrent Risk Prediction in Triple Negative Breast Cancer Patients in Taiwan. PLoS ONE, 2011, 6, e28222.	2.5	25
36	CellExpress: a comprehensive microarray-based cancer cell line and clinical sample gene expression analysis online system. Database: the Journal of Biological Databases and Curation, 2018, 2018, .	3.0	25

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37	Identification of theranostic factors for patients developing metastasis after surgery for early-stage lung adenocarcinoma. Theranostics, 2021, 11, 3661-3675.	10.0	25
38	Prognostic significance of NPM1 mutation-modulated microRNAâ^'mRNA regulation in acute myeloid leukemia. Leukemia, 2016, 30, 274-284.	7.2	24
39	Genetic polymorphisms of clusterin gene are associated with a decreased risk of Alzheimerâ€™s disease. European Journal of Epidemiology, 2012, 27, 73-75.	5.7	21
40	Utilizing Multiple in Silico Analyses to Identify Putative Causal SCN5A Variants in Brugada Syndrome. Scientific Reports, 2014, 4, 3850.	3.3	21
41	Whole-genome de novo sequencing reveals unique genes that contributed to the adaptive evolution of the Mikado pheasant. GigaScience, 2018, 7, .	6.4	21
42	Identification of Methylation-Driven, Differentially Expressed STXBP6 as a Novel Biomarker in Lung Adenocarcinoma. Scientific Reports, 2017, 7, 42573.	3.3	20
43	Different effects of long noncoding RNANDRG1-OT1fragments onNDRG1transcription in breast cancer cells under hypoxia. RNA Biology, 2018, 15, 1487-1498.	3.1	20
44	Targeting positive feedback between BASP1 and EGFR as a therapeutic strategy for lung cancer progression. Theranostics, 2020, 10, 10925-10939.	10.0	20
45	Aryl Hydrocarbon Receptor Activates NDRG1 Transcription under Hypoxia in Breast Cancer Cells. Scientific Reports, 2016, 6, 20808.	3.3	19
46	Comparison of the transcriptomic "stress response" evoked by antimycin A and oxygen deprivation in saccharomyces cerevisiae. BMC Genomics, 2008, 9, 627.	2.8	18
47	Adenylate Kinase 4 Promotes Inflammatory Gene Expression via Hif1Î± and AMPK in Macrophages. Frontiers in Immunology, 2021, 12, 630318.	4.8	18
48	The extracellular SEMA domain attenuates intracellular apoptotic signaling of semaphorin 6A in lung cancer cells. Oncogenesis, 2018, 7, 95.	4.9	17
49	Genetic polymorphisms of nerve growth factor receptor (NGFR) and the risk of Alzheimer's disease. Journal of Negative Results in BioMedicine, 2012, 11, 5.	1.4	16
50	iGCâ€"an integrated analysis package of gene expression and copy number alteration. BMC Bioinformatics, 2017, 18, 35.	2.6	16
51	Distinct Signaling Pathways After Higher or Lower Doses of Radiation in Three Closely Related Human Lymphoblast Cell Lines. International Journal of Radiation Oncology Biology Physics, 2010, 76, 212-219.	0.8	15
52	SLCO3A1, a Novel Crohnâ€™s Disease-Associated Gene, Regulates NF-ÎºB Activity and Associates with Intestinal Perforation. PLoS ONE, 2014, 9, e100515.	2.5	15
53	Invasive Pathobionts Contribute to Colon Cancer Initiation by Counterbalancing Epithelial Antimicrobial Responses. Cellular and Molecular Gastroenterology and Hepatology, 2022, 13, 57-79.	4.5	15
54	An automated microfluidic DNA microarray platform for genetic variant detection in inherited arrhythmic diseases. Analyst, The, 2018, 143, 1367-1377.	3.5	14

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55	GSTM3 variant is a novel genetic modifier in Brugada syndrome, a disease with risk of sudden cardiac death. EBioMedicine, 2020, 57, 102843.	6.1	14
56	anamiR: integrated analysis of MicroRNA and gene expression profiling. BMC Bioinformatics, 2019, 20, 239.	2.6	13
57	MicroRNA-107 enhances radiosensitivity by suppressing granulin in PC-3 prostate cancer cells. Scientific Reports, 2020, 10, 14584.	3.3	13
58	Uremic Toxin-Producing Bacteroides Species Prevail in the Gut Microbiota of Taiwanese CKD Patients: An Analysis Using the New Taiwan Microbiome Baseline. Frontiers in Cellular and Infection Microbiology, 2022, 12, 726256.	3.9	12
59	Use of Germline Polymorphisms in Predicting Concurrent Chemoradiotherapy Response in Esophageal Cancer. International Journal of Radiation Oncology Biology Physics, 2012, 82, 1996-2003.	0.8	11
60	Multiclass Prediction with Partial Least Square Regression for Gene Expression Data: Applications in Breast Cancer Intrinsic Taxonomy. BioMed Research International, 2013, 2013, 1-9.	1.9	11
61	SNP rs10248565 in HDAC9 as a novel genomic aberration biomarker of lung adenocarcinoma in non-smoking women. Journal of Biomedical Science, 2014, 21, 24.	7.0	11
62	Identification of Genes with Consistent Methylation Levels across Different Human Tissues. Scientific Reports, 2015, 4, 4351.	3.3	11
63	Regulatory Mechanisms and Functional Roles of Hypoxia-Induced Long Non-Coding RNA MTORT1 in Breast Cancer Cells. Frontiers in Oncology, 2021, 11, 663114.	2.8	10
64	EasyMAP: A user-friendly online platform for analyzing 16S ribosomal DNA sequencing data. New Biotechnology, 2021, 63, 37-44.	4.4	10
65	To compare the performance of prokaryotic taxonomy classifiers using curated 16S full-length rRNA sequences. Computers in Biology and Medicine, 2022, 145, 105416.	7.0	10
66	Prediction consistency and clinical presentations of breast cancer molecular subtypes for Han Chinese population. Journal of Translational Medicine, 2012, 10, S10.	4.4	9
67	A model-based circular binary segmentation algorithm for the analysis of array CGH data. BMC Research Notes, 2011, 4, 394.	1.4	8
68	Far infrared ray irradiation attenuates apoptosis and cell death of cultured keratinocytes stressed by dehydration. Journal of Photochemistry and Photobiology B: Biology, 2012, 106, 61-68.	3.8	8
69	Development of a prediction model for radiosensitivity using the expression values of genes and long non-coding RNAs. Oncotarget, 2016, 7, 26739-26750.	1.8	8
70	Identifying the functions and biomarkers of Codonopsis pilosula and Astragalus membranaceus aqueous extracts in hepatic cells. Chinese Medicine, 2019, 14, 10.	4.0	8
71	VariED: the first integrated database of gene annotation and expression profiles for variants related to human diseases. Database: the Journal of Biological Databases and Curation, 2019, 2019, .	3.0	7
72	ADAM9 functions as a transcriptional regulator to drive angiogenesis in esophageal squamous cell carcinoma. International Journal of Biological Sciences, 2021, 17, 3898-3910.	6.4	7

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73	A Longitudinal Study on the Association of Interrelated Factors Among Frailty Dimensions, Cognitive Domains, Cognitive Frailty, and All-Cause Mortality. Journal of Alzheimer's Disease, 2021, 84, 1795-1809.	2.6	7
74	RNASeqR: An R Package for Automated Two-Group RNA-Seq Analysis Workflow. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2021, 18, 2023-2031.	3.0	6
75	Semaphorin 5A suppresses the proliferation and migration of lung adenocarcinoma cells. International Journal of Oncology, 2020, 56, 165-177.	3.3	6
76	The association between metabolic syndrome and successful aging- using an extended definition of successful aging. PLoS ONE, 2021, 16, e0260550.	2.5	6
77	Attenuation of isocapnic hyperpnoea-induced guinea-pig bronchoconstriction by chronic hypoxia. European Respiratory Journal, 1998, 11, 1075-1080.	6.7	5
78	Deep Sequencing Reveals a MicroRNA Expression Signature in Triple-Negative Breast Cancer. Methods in Molecular Biology, 2018, 1699, 99-111.	0.9	5
79	Macrophage Migration Inhibitory Factor Acts as the Potential Target of a Newly Synthesized Compound, 1-(9â€²-methyl-3â€²-carbazole)-3, 4-dihydro-Î²-carboline. Scientific Reports, 2019, 9, 2147.	3.3	5
80	CNVIntegrate: the first multi-ethnic database for identifying copy number variations associated with cancer. Database: the Journal of Biological Databases and Curation, 2021, 2021, .	3.0	5
81	Determining arterial wave transit time from a single aortic pressure pulse in rats: vascular impulse response analysis. Scientific Reports, 2017, 7, 40998.	3.3	5
82	A rapid filtration apparatus for harvesting cells under controlled conditions for use in genome-wide temporal profiling studies. Analytical Biochemistry, 2004, 328, 29-34.	2.4	4
83	Comparisons and performance evaluations of RNA-seq alignment tools. , 2014, , .		4
84	Estrogen receptor status prediction by gene component regression: a comparative study. International Journal of Data Mining and Bioinformatics, 2014, 9, 149.	0.1	4
85	Defects in Vascular Mechanics Due to Aging in Rats: Studies on Arterial Wave Properties from a Single Aortic Pressure Pulse. Frontiers in Physiology, 2017, 8, 503.	2.8	4
86	Dual immuno-renal targeting of 7-benzylidenenaltrexone alleviates lupus nephritis via FcÎ³RIIB and HO-1. Journal of Molecular Medicine, 2018, 96, 413-425.	3.9	4
87	Using proteomic profiling to characterize protein signatures of different thymoma subtypes. BMC Cancer, 2019, 19, 796.	2.6	4
88	Mitomycin C treatment induces resistance and enhanced migration via phosphorylated Akt in aggressive lung cancer cells. Oncotarget, 2016, 7, 79995-80007.	1.8	4
89	Putative effectors for prognosis in lung adenocarcinoma are ethnic and gender specific. Oncotarget, 2015, 6, 19483-19499.	1.8	4
90	Indoxyl Sulfate Elevated Lnc-SLC15A1-1 Upregulating CXCL10/CXCL8 Expression in High-Glucose Endothelial Cells by Sponging MicroRNAs. Toxins, 2021, 13, 873.	3.4	4

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91	Refinement of breast cancer risk prediction with concordant leading edge subsets from prognostic gene signatures. Breast Cancer Research and Treatment, 2014, 147, 353-370.	2.5	3
92	Systolic aortic pressure-time area is a useful index describing arterial wave properties in rats with diabetes. Scientific Reports, 2015, 5, 17293.	3.3	3
93	Evolutionary Trajectories and Genomic Divergence in Localized Breast Cancers after Ipsilateral Breast Tumor Recurrence. Cancers, 2021, 13, 1821.	3.7	3
94	Overexpression of methylation-driven DCC suppresses proliferation of lung cancer cells. Translational Cancer Research, 2016, 5, 169-175.	1.0	3
95	Novel Tumor-Specific Antigens for Immunotherapy Identified From Multi-omics Profiling in Thymic Carcinomas. Frontiers in Immunology, 2021, 12, 748820.	4.8	3
96	Lidocaine and Bupivacaine Downregulate MYB and DANCR lncRNA by Upregulating miR-187-5p in MCF-7 Cells. Frontiers in Medicine, 2021, 8, 732817.	2.6	3
97	Impacts of Kidney Dysfunction and Cerebral Cortical Thinning on Cognitive Change in Elderly Population. Journal of Alzheimer's Disease, 2020, 76, 225-236.	2.6	2
98	Differential whole-genome doubling and homologous recombination deficiencies across breast cancer subtypes from the Taiwanese population. Communications Biology, 2021, 4, 1052.	4.4	2
99	MiDSystem: A comprehensive online system for de novo assembly and analysis of microbial genomes. New Biotechnology, 2021, 65, 42-52.	4.4	2
100	Quantification of contractile mechanics in the rat heart from ventricular pressure alone. Oncotarget, 2017, 8, 96161-96170.	1.8	2
101	Catecholamines in hyperpnoea-induced airway constriction of guinea pigs. Autonomic and Autacoid Pharmacology, 2001, 21, 151-157.	0.6	1
102	Concurrent analysis of copy number variations and expression profiles to identify genes associated with tumorigenesis and survival outcome in lung adenocarcinoma. , 2010, , .		1
103	Association between mean corpuscular volume and cognitive impairment in an 8â€yearcohort study in the communityâ€dwelling elderly. Alzheimer's and Dementia, 2020, 16, e039280.	0.8	1
104	The association between ambient air pollution and cognitive impairment in communityâ€dwelling older adults: Sixâ€year cohort study TIGER. Alzheimer's and Dementia, 2020, 16, e041433.	0.8	1
105	High-performance deep learning pipeline predicts individuals in mixtures of DNA using sequencing data. Briefings in Bioinformatics, 2021, 22, .	6.5	1
106	ADAM9 to enhance CDCP1 protein expression by suppressing miR-218 for lung tumor metastasis.. Journal of Clinical Oncology, 2016, 34, e23002-e23002.	1.6	1
107	Utilizing Cox regression model to assess the relations between predefined gene sets and the survival outcome of lung adenocarcinoma. , 2010, , .		0
108	Comparison of triple negative breast cancer between Asian and western data sets. , 2010, , .		0

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109	Concurrent analysis of copy number variation and gene expression: Application in paired non-smoking female lung cancer patients. , 2010, , .		0
110	Projecting partial least square and principle component regression across microarray studies. , 2010, , .		0
111	Concurrent analysis of copy number variation and gene expression: application in paired non-smoking female lung cancer patients. International Journal of Data Mining and Bioinformatics, 2013, 8, 92.	0.1	0
112	Extracorporeal Life Support Enhances the Forward Pressure Wave to Cause a Mismatch between Cardiac Oxygen Demand and Supply. Scientific Reports, 2019, 9, 13882.	3.3	0
113	Metabolic syndrome and successful aging: A sixâ€year cohort study TIGER among communityâ€dwelling elderly in Taiwan. Alzheimer's and Dementia, 2020, 16, e038052.	0.8	0
114	The association between retinal vascular fractal dimension and cognitive function in the communityâ€dwelling elderly cohort TIGER. Alzheimer's and Dementia, 2020, 16, e039265.	0.8	0
115	ATTRACTIVE â€“ An Auto-Updating Database for Experimental Protocols in Regenerative Medicine. IEEE Access, 2021, 9, 75202-75210.	4.2	0
116	Abstract 1993: Higher activity of cell proliferation is associated with poor survival in lung adenocarcinoma. , 2010, , .		0
117	Abstract 2944: Genome-wide transcriptional modulation screening in non-smoking female lung cancer in Taiwan. , 2010, , .		0
118	Abstract 112: Concurrent analysis between copy number variation and gene expression of non-smoking lung cancer females in Taiwan. , 2010, , .		0
119	Abstract 3977: Gene-expression signature specifically associated with triple-negative breast cancer pertaining to asian ethnicity. , 2010, , .		0
120	Factors to be considered in designing frameworks for automated bioinformatics pipelinesâ€”a perspective based on application setting. Translational Cancer Research, 2020, 9, 7382-7383.	1.0	0
121	MutScape: an analytical toolkit for probing the mutational landscape in cancer genomics. NAR Genomics and Bioinformatics, 2021, 3, lqab099.	3.2	0
122	Extracellular domain of semaphorin 5A serves a tumorâ€suppressing role by activating interferon signaling pathways in lung adenocarcinoma cells. International Journal of Oncology, 2022, 60, .	3.3	0
123	Association of ambient air pollution and retinal layer thickness with cognitive impairment in communityâ€dwelling older adults: A twoâ€year cohort study. Alzheimer's and Dementia, 2021, 17, .	0.8	0