Hang Chang

List of Publications by Year
in descending order

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50 papers	1,428 citations	471061 17 h-index	414034 32 g-index
53 all docs	53 docs citations	53 times ranked	2133 citing authors

#	Article	IF	Citations
1	CD36 Repression Activates a Multicellular Stromal Program Shared by High Mammographic Density and Tumor Tissues. Cancer Discovery, 2012, 2, 826-839.	7.7	157
2	Iterative Voting for Inference of Structural Saliency and Characterization of Subcellular Events. IEEE Transactions on Image Processing, 2007, 16, 615-623.	6.0	139
3	Unsupervised Transfer Learning via Multi-Scale Convolutional Sparse Coding for Biomedical Applications. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2018, 40, 1182-1194.	9.7	127
4	Invariant Delineation of Nuclear Architecture in Glioblastoma Multiforme for Clinical and Molecular Association. IEEE Transactions on Medical Imaging, 2013, 32, 670-682.	5.4	89
5	Classification of Histology Sections via Multispectral Convolutional Sparse Coding. , 2014, 2014, 3081-3088.		79
6	Molecular Predictors of 3D Morphogenesis by Breast Cancer Cell Lines in 3D Culture. PLoS Computational Biology, 2010, 6, e1000684.	1.5	77
7	Genetic and metabolic links between the murine microbiome and memory. Microbiome, 2020, 8, 53.	4.9	56
8	Adapting fisher vectors for histopathology image classification. , 2017, , .		48
9	Stacked Predictive Sparse Decomposition for Classification of Histology Sections. International Journal of Computer Vision, 2015, 113, 3-18.	10.9	45
10	Morphometic analysis of TCGA glioblastoma multiforme. BMC Bioinformatics, 2011, 12, 484.	1.2	44
11	High-Dimensional Phenotyping Identifies Age-Emergent Cells in Human Mammary Epithelia. Cell Reports, 2018, 23, 1205-1219.	2.9	39
12	Systematic Analysis of Impact of Sampling Regions and Storage Methods on Fecal Gut Microbiome and Metabolome Profiles. MSphere, 2020, 5, .	1.3	37
13	Classification of Tumor Histology via Morphometric Context. , 2013, 2013, .		33
14	Classification of tumor histopathology via sparse feature learning. , 2013, 2013, .		30
15	Characterization of Tissue Histopathology via Predictive Sparse Decomposition and Spatial Pyramid Matching. Lecture Notes in Computer Science, 2013, 16, 91-98.	1.0	30
16	Contribution of trace element exposure to gestational diabetes mellitus through disturbing the gut microbiome. Environment International, 2021, 153, 106520.	4.8	28
17	Stress Signaling from Human Mammary Epithelial Cells Contributes to Phenotypes of Mammographic Density. Cancer Research, 2014, 74, 5032-5044.	0.4	26
18	Prospective study reveals a microbiome signature that predicts the occurrence of post-operative enterocolitis in Hirschsprung disease (HSCR) patients. Gut Microbes, 2020, 11, 842-854.	4.3	24

#	Article	IF	Citations
19	A new platform for ultra-high dose rate radiobiological research using the BELLA PW laser proton beamline. Scientific Reports, 2022, 12, 1484.	1.6	23
20	Stacked Predictive Sparse Coding for Classification of Distinct Regions in Tumor Histopathology. , 2013, , 169-176.		19
21	BioSig3D: High Content Screening of Three-Dimensional Cell Culture Models. PLoS ONE, 2016, 11, e0148379.	1.1	19
22	Comparison of sparse coding and kernel methods for histopathological classification of gliobastoma multiforme. , 2011, 2011, 711-714.		18
23	Multireference Level Set for the Characterization of Nuclear Morphology in Glioblastoma Multiforme. IEEE Transactions on Biomedical Engineering, 2012, 59, 3460-3467.	2.5	18
24	Nuclei segmentation via sparsity constrained convolutional regression. , 2015, 2015, 1284-1287.		18
25	Feature learning with component selective encoding for histopathology image classification. , 2018, , .		18
26	Clinical significance and molecular annotation of cellular morphometric subtypes in lower-grade gliomas discovered by machine learning. Neuro-Oncology, 2023, 25, 68-81.	0.6	18
27	When machine vision meets histology: A comparative evaluation of model architecture for classification of histology sections. Medical Image Analysis, 2017, 35, 530-543.	7.0	16
28	Prospective Study Reveals Host Microbial Determinants of Clinical Response to Fecal Microbiota Transplant Therapy in Type 2 Diabetes Patients. Frontiers in Cellular and Infection Microbiology, 2022, 12, 820367.	1.8	16
29	Graphical methods for quantifying macromolecules through bright field imaging. Bioinformatics, 2009, 25, 1070-1075.	1.8	15
30	Stiffness of the microenvironment upregulates ERBB2 expression in 3D cultures of MCF10A within the range of mammographic density. Scientific Reports, 2016, 6, 28987.	1.6	15
31	NaroNet: Discovery of tumor microenvironment elements from highly multiplexed images. Medical Image Analysis, 2022, 78, 102384.	7.0	15
32	Thirdhand smoke: Genotoxicity and carcinogenic potential. Chronic Diseases and Translational Medicine, 2020, 6, 27-34.	0.9	12
33	Machine Learning in Multimodal Medical Imaging. BioMed Research International, 2017, 2017, 1-2.	0.9	9
34	Batch-invariant nuclear segmentation in whole mount histology sections. , 2012, , .		7
35	Coupled segmentation of nuclear and membrane-bound macromolecules through voting and multiphase level set. Pattern Recognition, 2015, 48, 882-893.	5.1	7
36	Multiphase level set for automated delineation of membrane-bound macromolecules. , 2010, , .		6

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37	Genetic background influences the effect of thirdhand smoke exposure on anxiety and memory in Collaborative Cross mice. Scientific Reports, 2021, 11, 13285.	1.6	6
38	Distinct Clinical Impact and Biological Function of Angiopoietin and Angiopoietin-like Proteins in Human Breast Cancer. Cells, 2021, 10, 2590.	1.8	6
39	Host genetics and gut microbiota cooperatively contribute to azoxymethane-induced acute toxicity in Collaborative Cross mice. Archives of Toxicology, 2021, 95, 949-958.	1.9	6
40	Development and Validation of an Unsupervised Feature Learning System for Leukocyte Characterization and Classification: A Multi-Hospital Study. International Journal of Computer Vision, 2021, 129, 1837-1856.	10.9	5
41	From Mouse to Human: Cellular Morphometric Subtype Learned From Mouse Mammary Tumors Provides Prognostic Value in Human Breast Cancer. Frontiers in Oncology, 2021, 11, 819565.	1.3	5
42	Molecular bases of morphometric composition in Glioblastoma multiforme. , 2012, , .		4
43	Classification of tumor histopathology via sparse feature learning. , 2013, , .		4
44	Integrative Analysis of Cellular Morphometric Context Reveals Clinically Relevant Signatures in Lower Grade Glioma. Lecture Notes in Computer Science, 2016, 9900, 72-80.	1.0	4
45	Thirdhand cigarette smoke leads to ageâ€dependent and persistent alterations in the cecal microbiome of mice. MicrobiologyOpen, 2021, 10, e1198.	1.2	3
46	Quantification of the Dynamics of DNA Repair to Ionizing Radiation via Colocalization of 53BP1 and É£H2AX. Computational Biology, 2015, , 253-263.	0.1	2
47	Classification of 3D Multicellular Organization in Phase Microscopy for High Throughput Screening of Therapeutic Targets. , 2015, 2015, 436-441.		1
48	Identification of a novel 15â€gene expression signature predicting overall survival of human colorectal cancer. Clinical and Translational Medicine, 2020, 10, e258.	1.7	1
49	Molecular Correlates of Morphometric Subtypes in Glioblastoma Multiforme. , 2014, , 423-454.		0
50	Phenotypic characterization of breast invasive carcinoma via transferable tissue morphometric patterns learned from glioblastoma multiforme. , 2016, 2016, 1025-1028.		0