

Hang Chang

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

47
papers

991
citations

17
h-index

31
g-index

53
ext. papers

1,192
ext. citations

6.3
avg, IF

4.12
L-index

#	Paper	IF	Citations
47	CD36 repression activates a multicellular stromal program shared by high mammographic density and tumor tissues. <i>Cancer Discovery</i> , 2012 , 2, 826-39	24.4	128
46	Iterative voting for inference of structural saliency and characterization of subcellular events. <i>IEEE Transactions on Image Processing</i> , 2007 , 16, 615-23	8.7	121
45	Unsupervised Transfer Learning via Multi-Scale Convolutional Sparse Coding for Biomedical Applications. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2018 , 40, 1182-1194	13.3	97
44	Invariant delineation of nuclear architecture in glioblastoma multiforme for clinical and molecular association. <i>IEEE Transactions on Medical Imaging</i> , 2013 , 32, 670-82	11.7	70
43	Molecular predictors of 3D morphogenesis by breast cancer cell lines in 3D culture. <i>PLoS Computational Biology</i> , 2010 , 6, e1000684	5	67
42	Classification of Histology Sections via Multispectral Convolutional Sparse Coding. <i>IEEE Computer Society Conference on Computer Vision and Pattern Recognition Workshops</i> , 2014 , 2014, 3081-3088	1.3	62
41	Morphometric analysis of TCGA glioblastoma multiforme. <i>BMC Bioinformatics</i> , 2011 , 12, 484	3.6	35
40	Adapting fisher vectors for histopathology image classification 2017 ,		29
39	Stacked Predictive Sparse Decomposition for Classification of Histology Sections. <i>International Journal of Computer Vision</i> , 2015 , 113, 3-18	10.6	28
38	High-Dimensional Phenotyping Identifies Age-Emergent Cells in Human Mammary Epithelia. <i>Cell Reports</i> , 2018 , 23, 1205-1219	10.6	25
37	Classification of Tumor Histology via Morphometric Context. <i>Proceedings of the IEEE Computer Society Conference on Computer Vision and Pattern Recognition</i> , 2013 , 2013,	6	25
36	Characterization of tissue histopathology via predictive sparse decomposition and spatial pyramid matching. <i>Lecture Notes in Computer Science</i> , 2013 , 16, 91-8	0.9	24
35	CLASSIFICATION OF TUMOR HISTOPATHOLOGY VIA SPARSE FEATURE LEARNING 2013 , 2013,	1.5	22
34	Systematic Analysis of Impact of Sampling Regions and Storage Methods on Fecal Gut Microbiome and Metabolome Profiles. <i>MSphere</i> , 2020 , 5,	5	21
33	Stress signaling from human mammary epithelial cells contributes to phenotypes of mammographic density. <i>Cancer Research</i> , 2014 , 74, 5032-5044	10.1	20
32	Genetic and metabolic links between the murine microbiome and memory. <i>Microbiome</i> , 2020 , 8, 53	16.6	20
31	Stacked Predictive Sparse Coding for Classification of Distinct Regions of Tumor Histopathology. <i>Proceedings of the IEEE International Conference on Computer Vision</i> , 2013 , 169-176	3.3	17

30	COMPARISON OF SPARSE CODING AND KERNEL METHODS FOR HISTOPATHOLOGICAL CLASSIFICATION OF GLIOBLASTOMA MULTIFORME 2011 , 2011, 711-714	1.5	16
29	Multireference level set for the characterization of nuclear morphology in glioblastoma multiforme. <i>IEEE Transactions on Biomedical Engineering</i> , 2012 , 59, 3460-7	5	15
28	Graphical methods for quantifying macromolecules through bright field imaging. <i>Bioinformatics</i> , 2009 , 25, 1070-5	7.2	14
27	BioSig3D: High Content Screening of Three-Dimensional Cell Culture Models. <i>PLoS ONE</i> , 2016 , 11, e0148379	3.79	14
26	Prospective study reveals a microbiome signature that predicts the occurrence of post-operative enterocolitis in Hirschsprung disease (HSCR) patients. <i>Gut Microbes</i> , 2020 , 11, 842-854	8.8	13
25	NUCLEI SEGMENTATION VIA SPARSITY CONSTRAINED CONVOLUTIONAL REGRESSION 2015 , 2015, 1284-1287	13	13
24	Stiffness of the microenvironment upregulates ERBB2 expression in 3D cultures of MCF10A within the range of mammographic density. <i>Scientific Reports</i> , 2016 , 6, 28987	4.9	12
23	When machine vision meets histology: A comparative evaluation of model architecture for classification of histology sections. <i>Medical Image Analysis</i> , 2017 , 35, 530-543	15.4	12
22	Feature learning with component selective encoding for histopathology image classification 2018 ,		10
21	Contribution of trace element exposure to gestational diabetes mellitus through disturbing the gut microbiome. <i>Environment International</i> , 2021 , 153, 106520	12.9	8
20	Batch-invariant nuclear segmentation in whole mount histology sections 2012 ,		6
19	A new platform for ultra-high dose rate radiobiological research using the BELLA PW laser proton beamline.. <i>Scientific Reports</i> , 2022 , 12, 1484	4.9	5
18	Multiphase level set for automated delineation of membrane-bound macromolecules 2010 ,		4
17	Molecular bases of morphometric composition in Glioblastoma multiforme 2012 ,		4
16	Thirdhand smoke: Genotoxicity and carcinogenic potential. <i>Chronic Diseases and Translational Medicine</i> , 2020 , 6, 27-34	3.9	4
15	Coupled Segmentation of Nuclear and Membrane-bound Macromolecules through Voting and Multiphase Level Set. <i>Pattern Recognition</i> , 2015 , 48, 882-893	7.7	3
14	Classification of tumor histopathology via sparse feature learning 2013 ,		3
13	Integrative Analysis of Cellular Morphometric Context Reveals Clinically Relevant Signatures in Lower Grade Glioma. <i>Lecture Notes in Computer Science</i> , 2016 , 9900, 72-80	0.9	3

12	Quantification of the Dynamics of DNA Repair to Ionizing Radiation via Colocalization of 53BP1 and γ H2AX. <i>Computational Biology</i> , 2015 , 253-263	0.7	2
11	Thirdhand cigarette smoke leads to age-dependent and persistent alterations in the cecal microbiome of mice. <i>MicrobiologyOpen</i> , 2021 , 10, e1198	3.4	2
10	Development and Validation of an Unsupervised Feature Learning System for Leukocyte Characterization and Classification: A Multi-Hospital Study. <i>International Journal of Computer Vision</i> , 2021 , 129, 1837-1856	10.6	2
9	NaroNet: Discovery of tumor microenvironment elements from highly multiplexed images.. <i>Medical Image Analysis</i> , 2022 , 78, 102384	15.4	2
8	Prospective Study Reveals Host Microbial Determinants of Clinical Response to Fecal Microbiota Transplant Therapy in Type 2 Diabetes Patients.. <i>Frontiers in Cellular and Infection Microbiology</i> , 2022 , 12, 820367	5.9	2
7	Classification of 3D Multicellular Organization in Phase Microscopy for High Throughput Screening of Therapeutic Targets. <i>Proceedings IEEE Workshop on Applications of Computer Vision</i> , 2015 , 2015, 436-441		1
6	From Mouse to Human: Cellular Morphometric Subtype Learned From Mouse Mammary Tumors Provides Prognostic Value in Human Breast Cancer.. <i>Frontiers in Oncology</i> , 2021 , 11, 819565	5.3	1
5	Identification of a novel 15-gene expression signature predicting overall survival of human colorectal cancer. <i>Clinical and Translational Medicine</i> , 2020 , 10, e258	5.7	1
4	Host genetics and gut microbiota cooperatively contribute to azoxymethane-induced acute toxicity in Collaborative Cross mice. <i>Archives of Toxicology</i> , 2021 , 95, 949-958	5.8	1
3	Genetic background influences the effect of thirdhand smoke exposure on anxiety and memory in Collaborative Cross mice. <i>Scientific Reports</i> , 2021 , 11, 13285	4.9	0
2	Molecular Correlates of Morphometric Subtypes in Glioblastoma Multiforme 2014 , 423-454		
1	PHENOTYPIC CHARACTERIZATION OF BREAST INVASIVE CARCINOMA VIA TRANSFERABLE TISSUE MORPHOMETRIC PATTERNS LEARNED FROM GLIOBLASTOMA MULTIFORME 2016 , 2016, 1025-1028	1.5	