

# Hang Chang

## List of Publications by Year in Descending Order

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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	A new platform for ultra-high dose rate radiobiological research using the BELLA PW laser proton beamline.. <i>Scientific Reports</i> , <b>2022</b> , 12, 1484	4.9	5
46	NaroNet: Discovery of tumor microenvironment elements from highly multiplexed images.. <i>Medical Image Analysis</i> , <b>2022</b> , 78, 102384	15.4	2
45	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> , <b>2022</b> , 12, 820367	5.9	2
44	From Mouse to Human: Cellular Morphometric Subtype Learned From Mouse Mammary Tumors Provides Prognostic Value in Human Breast Cancer.. <i>Frontiers in Oncology</i> , <b>2021</b> , 11, 819565	5.3	1
43	Thirdhand cigarette smoke leads to age-dependent and persistent alterations in the cecal microbiome of mice. <i>MicrobiologyOpen</i> , <b>2021</b> , 10, e1198	3.4	2
42	Genetic background influences the effect of thirdhand smoke exposure on anxiety and memory in Collaborative Cross mice. <i>Scientific Reports</i> , <b>2021</b> , 11, 13285	4.9	0
41	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> , <b>2021</b> , 129, 1837-1856	10.6	2
40	Contribution of trace element exposure to gestational diabetes mellitus through disturbing the gut microbiome. <i>Environment International</i> , <b>2021</b> , 153, 106520	12.9	8
39	Host genetics and gut microbiota cooperatively contribute to azoxymethane-induced acute toxicity in Collaborative Cross mice. <i>Archives of Toxicology</i> , <b>2021</b> , 95, 949-958	5.8	1
38	Prospective study reveals a microbiome signature that predicts the occurrence of post-operative enterocolitis in Hirschsprung disease (HSCR) patients. <i>Gut Microbes</i> , <b>2020</b> , 11, 842-854	8.8	13
37	Identification of a novel 15-gene expression signature predicting overall survival of human colorectal cancer. <i>Clinical and Translational Medicine</i> , <b>2020</b> , 10, e258	5.7	1
36	Systematic Analysis of Impact of Sampling Regions and Storage Methods on Fecal Gut Microbiome and Metabolome Profiles. <i>MSphere</i> , <b>2020</b> , 5,	5	21
35	Thirdhand smoke: Genotoxicity and carcinogenic potential. <i>Chronic Diseases and Translational Medicine</i> , <b>2020</b> , 6, 27-34	3.9	4
34	Genetic and metabolic links between the murine microbiome and memory. <i>Microbiome</i> , <b>2020</b> , 8, 53	16.6	20
33	High-Dimensional Phenotyping Identifies Age-Emergent Cells in Human Mammary Epithelia. <i>Cell Reports</i> , <b>2018</b> , 23, 1205-1219	10.6	25
32	Unsupervised Transfer Learning via Multi-Scale Convolutional Sparse Coding for Biomedical Applications. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , <b>2018</b> , 40, 1182-1194	13.3	97
31	Feature learning with component selective encoding for histopathology image classification <b>2018</b> ,		10

30	Adapting fisher vectors for histopathology image classification <b>2017</b> ,		29
29	When machine vision meets histology: A comparative evaluation of model architecture for classification of histology sections. <i>Medical Image Analysis</i> , <b>2017</b> , 35, 530-543	15.4	12
28	Stiffness of the microenvironment upregulates ERBB2 expression in 3D cultures of MCF10A within the range of mammographic density. <i>Scientific Reports</i> , <b>2016</b> , 6, 28987	4.9	12
27	Integrative Analysis of Cellular Morphometric Context Reveals Clinically Relevant Signatures in Lower Grade Glioma. <i>Lecture Notes in Computer Science</i> , <b>2016</b> , 9900, 72-80	0.9	3
26	BioSig3D: High Content Screening of Three-Dimensional Cell Culture Models. <i>PLoS ONE</i> , <b>2016</b> , 11, e0148379	3.7	14
25	PHENOTYPIC CHARACTERIZATION OF BREAST INVASIVE CARCINOMA VIA TRANSFERABLE TISSUE MORPHOMETRIC PATTERNS LEARNED FROM GLIOBLASTOMA MULTIFORME <b>2016</b> , 2016, 1025-1028	1.5	
24	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> , <b>2015</b> , 2015, 436-441		1
23	Coupled Segmentation of Nuclear and Membrane-bound Macromolecules through Voting and Multiphase Level Set. <i>Pattern Recognition</i> , <b>2015</b> , 48, 882-893	7.7	3
22	NUCLEI SEGMENTATION VIA SPARSITY CONSTRAINED CONVOLUTIONAL REGRESSION <b>2015</b> , 2015, 1284-1287	1.3	13
21	Quantification of the Dynamics of DNA Repair to Ionizing Radiation via Colocalization of 53BP1 and ?H2AX. <i>Computational Biology</i> , <b>2015</b> , 253-263	0.7	2
20	Stacked Predictive Sparse Decomposition for Classification of Histology Sections. <i>International Journal of Computer Vision</i> , <b>2015</b> , 113, 3-18	10.6	28
19	Molecular Correlates of Morphometric Subtypes in Glioblastoma Multiforme <b>2014</b> , 423-454		
18	Stress signaling from human mammary epithelial cells contributes to phenotypes of mammographic density. <i>Cancer Research</i> , <b>2014</b> , 74, 5032-5044	10.1	20
17	Classification of Histology Sections via Multispectral Convolutional Sparse Coding. <i>IEEE Computer Society Conference on Computer Vision and Pattern Recognition Workshops</i> , <b>2014</b> , 2014, 3081-3088	1.3	62
16	Stacked Predictive Sparse Coding for Classification of Distinct Regions of Tumor Histopathology. <i>Proceedings of the IEEE International Conference on Computer Vision</i> , <b>2013</b> , 169-176	3.3	17
15	Invariant delineation of nuclear architecture in glioblastoma multiforme for clinical and molecular association. <i>IEEE Transactions on Medical Imaging</i> , <b>2013</b> , 32, 670-82	11.7	70
14	CLASSIFICATION OF TUMOR HISTOPATHOLOGY VIA SPARSE FEATURE LEARNING <b>2013</b> , 2013,	1.5	22
13	Classification of Tumor Histology via Morphometric Context. <i>Proceedings of the IEEE Computer Society Conference on Computer Vision and Pattern Recognition</i> , <b>2013</b> , 2013,	6	25

12	Classification of tumor histopathology via sparse feature learning <b>2013</b> ,		3
11	Characterization of tissue histopathology via predictive sparse decomposition and spatial pyramid matching. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 16, 91-8	0.9	24
10	Multireference level set for the characterization of nuclear morphology in glioblastoma multiforme. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2012</b> , 59, 3460-7	5	15
9	CD36 repression activates a multicellular stromal program shared by high mammographic density and tumor tissues. <i>Cancer Discovery</i> , <b>2012</b> , 2, 826-39	24.4	128
8	Molecular bases of morphometric composition in Glioblastoma multiforme <b>2012</b> ,		4
7	Batch-invariant nuclear segmentation in whole mount histology sections <b>2012</b> ,		6
6	Morphometric analysis of TCGA glioblastoma multiforme. <i>BMC Bioinformatics</i> , <b>2011</b> , 12, 484	3.6	35
5	COMPARISON OF SPARSE CODING AND KERNEL METHODS FOR HISTOPATHOLOGICAL CLASSIFICATION OF GLIOBLASTOMA MULTIFORME <b>2011</b> , 2011, 711-714	1.5	16
4	Molecular predictors of 3D morphogenesis by breast cancer cell lines in 3D culture. <i>PLoS Computational Biology</i> , <b>2010</b> , 6, e1000684	5	67
3	Multiphase level set for automated delineation of membrane-bound macromolecules <b>2010</b> ,		4
2	Graphical methods for quantifying macromolecules through bright field imaging. <i>Bioinformatics</i> , <b>2009</b> , 25, 1070-5	7.2	14
1	Iterative voting for inference of structural saliency and characterization of subcellular events. <i>IEEE Transactions on Image Processing</i> , <b>2007</b> , 16, 615-23	8.7	121