

# Cheng Lu

## List of Publications by Year in descending order

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49  
papers

1,178  
citations

430874

18  
h-index

414414

32  
g-index

49  
all docs

49  
docs citations

49  
times ranked

1384  
citing authors

#	ARTICLE	IF	CITATIONS
1	Spatial Architecture and Arrangement of Tumor-Infiltrating Lymphocytes for Predicting Likelihood of Recurrence in Early-Stage Non-Small Cell Lung Cancer. <i>Clinical Cancer Research</i> , 2019, 25, 1526-1534.	7.0	168
2	Nuclear shape and orientation features from H&E images predict survival in early-stage estrogen receptor-positive breast cancers. <i>Laboratory Investigation</i> , 2018, 98, 1438-1448.	3.7	99
3	An oral cavity squamous cell carcinoma quantitative histomorphometric-based image classifier of nuclear morphology can risk stratify patients for disease-specific survival. <i>Modern Pathology</i> , 2017, 30, 1655-1665.	5.5	60
4	Automated analysis and diagnosis of skin melanoma on whole slide histopathological images. <i>Pattern Recognition</i> , 2015, 48, 2738-2750.	8.1	59
5	An Efficient Technique for Nuclei Segmentation Based on Ellipse Descriptor Analysis and Improved Seed Detection Algorithm. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2014, 18, 1729-1741.	6.3	58
6	Automatic Nuclei Detection Based on Generalized Laplacian of Gaussian Filters. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2017, 21, 826-837.	6.3	54
7	Automated Segmentation of the Melanocytes in Skin Histopathological Images. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2013, 17, 284-296.	6.3	50
8	Toward Automatic Mitotic Cell Detection and Segmentation in Multispectral Histopathological Images. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2014, 18, 594-605.	6.3	45
9	Automated analysis and classification of melanocytic tumor on skin whole slide images. <i>Computerized Medical Imaging and Graphics</i> , 2018, 66, 124-134.	5.8	44
10	A prognostic model for overall survival of patients with early-stage non-small cell lung cancer: a multicentre, retrospective study. <i>The Lancet Digital Health</i> , 2020, 2, e594-e606.	12.3	38
11	A fusion-based approach for uterine cervical cancer histology image classification. <i>Computerized Medical Imaging and Graphics</i> , 2013, 37, 475-487.	5.8	34
12	Feature-driven local cell graph (Flock): New computational pathology-based descriptors for prognosis of lung cancer and HPV status of oropharyngeal cancers. <i>Medical Image Analysis</i> , 2021, 68, 101903.	11.6	34
13	Spatial interplay patterns of cancer nuclei and tumor-infiltrating lymphocytes (TILs) predict clinical benefit for immune checkpoint inhibitors. <i>Science Advances</i> , 2022, 8, .	10.3	31
14	Collagen fiber orientation disorder from H&E images is prognostic for early stage breast cancer: clinical trial validation. <i>Npj Breast Cancer</i> , 2021, 7, 104.	5.2	26
15	Detection of melanocytes in skin histopathological images using radial line scanning. <i>Pattern Recognition</i> , 2013, 46, 509-518.	8.1	25
16	Automated image analysis of nuclear atypia in high-power field histopathological image. <i>Journal of Microscopy</i> , 2015, 258, 233-240.	1.8	25
17	Multi-Pass Adaptive Voting for Nuclei Detection in Histopathological Images. <i>Scientific Reports</i> , 2016, 6, 33985.	3.3	25
18	Computerized tumor multinucleation index (MuNI) is prognostic in p16+ oropharyngeal carcinoma. <i>Journal of Clinical Investigation</i> , 2021, 131, .	8.2	24

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19	An Imaging Biomarker of Tumor-Infiltrating Lymphocytes to Risk-Stratify Patients With HPV-Associated Oropharyngeal Cancer. <i>Journal of the National Cancer Institute</i> , 2022, 114, 609-617.	6.3	23
20	Integrating pathomics with radiomics and genomics for cancer prognosis: A brief review. <i>Chinese Journal of Cancer Research: Official Journal of China Anti-Cancer Association, Beijing Institute for Cancer Research</i> , 2021, 33, 563-573.	2.2	23
21	Nuclear shape, architecture and orientation features from H&E images are able to predict recurrence in node-negative gastric adenocarcinoma. <i>Journal of Translational Medicine</i> , 2019, 17, 92.	4.4	22
22	Image analysis reveals molecularly distinct patterns of TILs in NSCLC associated with treatment outcome. <i>Npj Precision Oncology</i> , 2022, 6, .	5.4	20
23	Automatic Nuclear Segmentation Using Multiscale Radial Line Scanning With Dynamic Programming. <i>IEEE Transactions on Biomedical Engineering</i> , 2017, 64, 2475-2485.	4.2	17
24	Radiomic Features Associated With HPV Status on Pretreatment Computed Tomography in Oropharyngeal Squamous Cell Carcinoma Inform Clinical Prognosis. <i>Frontiers in Oncology</i> , 2021, 11, 744250.	2.8	16
25	Convolutional neural network initialized active contour model with adaptive ellipse fitting for nuclear segmentation on breast histopathological images. <i>Journal of Medical Imaging</i> , 2019, 6, 1.	1.5	16
26	Oropharyngeal cancer outcomes correlate with p16 status, multinucleation and immune infiltration. <i>Modern Pathology</i> , 2022, 35, 1045-1054.	5.5	16
27	Radiomics-based assessment of ultra-widefield leakage patterns and vessel network architecture in the PERMEATE study: insights into treatment durability. <i>British Journal of Ophthalmology</i> , 2021, 105, 1155-1160.	3.9	15
28	An unsupervised method for histological image segmentation based on tissue cluster level graph cut. <i>Computerized Medical Imaging and Graphics</i> , 2021, 93, 101974.	5.8	13
29	A prognostic and predictive computational pathology image signature for added benefit of adjuvant chemotherapy in early stage non-small-cell lung cancer. <i>EBioMedicine</i> , 2021, 69, 103481.	6.1	11
30	Feature Driven Local Cell Graph (FeDeG): Predicting Overall Survival in Early Stage Lung Cancer. <i>Lecture Notes in Computer Science</i> , 2018, , 407-416.	1.3	10
31	Deep learning-based histopathological image analysis for automated detection and staging of melanoma. , 2020, , 237-265.		10
32	A robust automatic nuclei segmentation technique for quantitative histopathological image analysis. <i>Analytical and Quantitative Cytopathology and Histopathology</i> , 2012, 34, 296-308.	0.2	10
33	Automated segmentation and analysis of the epidermis area in skin histopathological images. , 2012, 2012, 5355-9.		7
34	Automated segmentation of the epidermis area in skin whole slide histopathological images. <i>IET Image Processing</i> , 2015, 9, 735-742.	2.5	7
35	Survival prediction on intrahepatic cholangiocarcinoma with histomorphological analysis on the whole slide images. <i>Computers in Biology and Medicine</i> , 2022, 146, 105520.	7.0	7
36	A machine learning model for separating epithelial and stromal regions in oral cavity squamous cell carcinomas using H&E-stained histology images: A multi-center, retrospective study. <i>Oral Oncology</i> , 2022, 131, 105942.	1.5	6

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37	Improved Demons Technique with Orthogonal Gradient Information for Medical Image Registration. IEICE Transactions on Information and Systems, 2010, E93-D, 3414-3417.	0.7	5
38	Efficient video sequences alignment using unbiased bidirectional dynamic time warping. Journal of Visual Communication and Image Representation, 2011, 22, 606-614.	2.8	5
39	Singular point detection based on orientation filed regularization and poincar&#x00E9; index in fingerprint images. , 2013, , .		4
40	Computer&#x2013;extracted features of nuclear morphology in hematoxylin and eosin images distinguish <sc>s</sc>tage <sc>ll</sc> and <sc>IV</sc> colon tumors. Journal of Pathology, 2022, 257, 17-28.	4.5	4
41	Choice of low resolution sample sets for efficient super-resolution signal reconstruction. Journal of Visual Communication and Image Representation, 2012, 23, 194-207.	2.8	3
42	Nuclei Instance Segmentation and Classification in Histopathological Images using a DT-Yolact. , 2021, , .		3
43	Automated segmentation of regions of interest in whole slide skin histopathological images. , 2015, 2015, 3869-72.		2
44	Glandular orientation and shape determined by computational pathology could identify aggressive tumor for early colon carcinoma: a triple-center study. Journal of Translational Medicine, 2020, 18, 129.	4.4	2
45	Improved image registration technique based on Demons and symmetric orthogonal gradient information. , 2010, , .		1
46	Efficient epidermis segmentation for whole slide skin histopathological images. , 2014, 2014, 5546-9.		1
47	Deep Learning-Based Cancer Region Segmentation from H&#x26amp;#x2013;E Slides for HPV-Related Oropharyngeal Squamous Cell Carcinomas. , 2021, , 137-147.		0
48	Adherent Nuclei Edge Detection Based on Caps-Unet. , 2020, , .		0
49	Identifying the origination of liver metastasis using a hand-crafted computational pathology approach. , 2022, , .		0