Yuan Liu

List of Publications by Citations

44 papers	2,168 citations	17 h-index	46 g-index
56 ext. papers	3,430 ext. citations	12 avg, IF	5.42 L-index

#	Paper	IF	Citations
44	Prediction of cardiovascular risk factors from retinal fundus photographs via deep learning. *Nature Biomedical Engineering*, **2018**, 2, 158-164	19	668
43	Impact of Deep Learning Assistance on the Histopathologic Review of Lymph Nodes for Metastatic Breast Cancer. *American Journal of Surgical Pathology*, **2018**, 42, 1636-1646	6.7	192
42	How to Read Articles That Use Machine Learning: Users\Guides to the Medical Literature. *JAMA - Journal of the American Medical Association*, **2019**, 322, 1806-1816	27.4	172
41	Artificial Intelligence-Based Breast Cancer Nodal Metastasis Detection: Insights Into the Black Box for Pathologists. *Archives of Pathology and Laboratory Medicine*, **2019**, 143, 859-868	5	133
40	A deep learning system for differential diagnosis of skin diseases. *Nature Medicine*, **2020**, 26, 900-908	50.5	115
39	Deep learning-enabled medical computer vision. *Npj Digital Medicine*, **2021**, 4, 5	15.7	97
38	An augmented reality microscope with real-time artificial intelligence integration for cancer diagnosis. *Nature Medicine*, **2019**, 25, 1453-1457	50.5	95
37	How to develop machine learning models for healthcare. *Nature Materials*, **2019**, 18, 410-414	27	83
36	Charting the landscape of tandem BRCT domain-mediated protein interactions. *Science Signaling*, **2012**, 5, rs6	8.8	74
35	Chest Radiograph Interpretation with Deep Learning Models: Assessment with Radiologist-adjudicated Reference Standards and Population-adjusted Evaluation. *Radiology*, **2020**, 294, 421-431	20.5	73
34	LS-SNP/PDB: annotated non-synonymous SNPs mapped to Protein Data Bank structures. *Bioinformatics*, **2009**, 25, 1431-2	7.2	64
33	Detection of anaemia from retinal fundus images via deep learning. *Nature Biomedical Engineering*, **2020**, 4, 18-27	19	60
32	Deep learning-based survival prediction for multiple cancer types using histopathology images. *PLoS ONE*, **2020**, 15, e0233678	3.7	52
31	Development and Validation of a Deep Learning Algorithm for Gleason Grading of Prostate Cancer From Biopsy Specimens. *JAMA Oncology*, **2020**, 6, 1372-1380	13.4	44
30	Predicting the risk of developing diabetic retinopathy using deep learning. *The Lancet Digital Health*, **2021**, 3, e10-e19	14.4	36
29	Whole-Slide Image Focus Quality: Automatic Assessment and Impact on AI Cancer Detection. *Journal of Pathology Informatics*, **2019**, 10, 39	4.4	26
28	Interpretable survival prediction for colorectal cancer using deep learning. *Npj Digital Medicine*, **2021**, 4, 71	15.7	20

27	Evaluation of the Use of Combined Artificial Intelligence and Pathologist Assessment to Review and Grade Prostate Biopsies. *JAMA Network Open*, **2020**, 3, e2023267	10.4	16
26	Beatquency domain and machine learning improve prediction of cardiovascular death after acute coronary syndrome. *Scientific Reports*, **2016**, 6, 34540	4.9	13
25	Development and Assessment of an Artificial Intelligence-Based Tool for Skin Condition Diagnosis by Primary Care Physicians and Nurse Practitioners in Teledermatology Practices. *JAMA Network Open*, **2021**, 4, e217249	10.4	13
24	Improved eIF4E binding peptides by phage display guided design: plasticity of interacting surfaces yield collective effects. *PLoS ONE*, **2012**, 7, e47235	3.7	12
23	Remote Tool-Based Adjudication for Grading Diabetic Retinopathy. *Translational Vision Science and Technology*, **2019**, 8, 40	3.3	12
22	ECG morphological variability in beat space for risk stratification after acute coronary syndrome. *Journal of the American Heart Association*, **2014**, 3, e000981	6	11
21	Yeast two-hybrid junk sequences contain selected linear motifs. *Nucleic Acids Research*, **2011**, 39, e128	20.1	9
20	Predicting prostate cancer specific-mortality with artificial intelligence-based Gleason grading. *Communications Medicine*, **2021**, 1,		8
19	Validation and Clinical Applicability of Whole-Volume Automated Segmentation of Optical Coherence Tomography in Retinal Disease Using Deep Learning. *JAMA Ophthalmology*, **2021**, 139, 964-973	3.9	8
18	Role of the N-terminal lid in regulating the interaction of phosphorylated MDMX with p53. *Oncotarget*, **2017**, 8, 112825-112840	3.3	7
17	Determining breast cancer biomarker status and associated morphological features using deep learning. *Communications Medicine*, **2021**, 1,		7
16	Reply to: Transparency and reproducibility in artificial intelligence. *Nature*, **2020**, 586, E17-E18	50.4	6
15	Evaluation of artificial intelligence on a reference standard based on subjective interpretation. *The Lancet Digital Health*, **2021**, 3, e693-e695	14.4	5
14	Systematic mutational analysis of an ubiquitin ligase (MDM2)-binding peptide: computational studies. *Theoretical Chemistry Accounts*, **2011**, 130, 1145-1154	1.9	4
13	Deep learning for distinguishing normal versus abnormal chest radiographs and generalization to two unseen diseases tuberculosis and COVID-19. *Scientific Reports*, **2021**, 11, 15523	4.9	4
12	Artificial Intelligence Approach in Melanoma **2019**, 1-31		3
11	Artificial Intelligence Approach in Melanoma **2019**, 599-628		3
10	Longitudinal Screening for Diabetic Retinopathy in a Nationwide Screening Program: Comparing Deep Learning and Human Graders. *Journal of Diabetes Research*, **2020**, 2020, 8839376	3.9	3

9	Reply: VThe importance of study design in the application of artificial intelligence methods in medicineV *Npj Digital Medicine*, **2019**, 2, 100	15.7	2
8	Detection of elusive polyps using a large-scale artificial intelligence system (with videos). *Gastrointestinal Endoscopy*, **2021**, 94, 1099-1109.e10	5.2	2
7	Measuring clinician-machine agreement in differential diagnoses for dermatology. *British Journal of Dermatology*, **2020**, 182, 1277-1278	4	2
6	Artificial intelligence, machine learning and deep learning for eye care specialists. *Annals of Eye Science*, **2020**, 5, 18-18	0.9	1
5	Deep learning to detect optical coherence tomography-derived diabetic macular edema from retinal photographs: a multicenter validation study.. *Ophthalmology Retina*, **2022**,	3.8	1
4	Retinal detection of kidney disease and diabetes. *Nature Biomedical Engineering*, **2021**, 5, 487-489	19	1
3	Improving reference standards for validation of AI-based radiography. *British Journal of Radiology*, **2021**, 94, 20210435	3.4	1
2	Reply. *Ophthalmology*, **2020**, 127, e58-e59	7.3	
1	Lessons learnt from harnessing deep learning for real-world clinical applications in ophthalmology: detecting diabetic retinopathy from retinal fundus photographs **2021**, 247-264		