

Lily Peng

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.

29
papers

7,790
citations

26
h-index

32
g-index

32
ext. papers

10,611
ext. citations

14.2
avg, IF

6.05
L-index

#	Paper	IF	Citations
29	Development and Validation of a Deep Learning Algorithm for Detection of Diabetic Retinopathy in Retinal Fundus Photographs. <i>JAMA - Journal of the American Medical Association</i> , 2016 , 316, 2402-2410	27.4	2967
28	International evaluation of an AI system for breast cancer screening. <i>Nature</i> , 2020 , 577, 89-94	50.4	707
27	Prediction of cardiovascular risk factors from retinal fundus photographs via deep learning. <i>Nature Biomedical Engineering</i> , 2018 , 2, 158-164	19	668
26	End-to-end lung cancer screening with three-dimensional deep learning on low-dose chest computed tomography. <i>Nature Medicine</i> , 2019 , 25, 954-961	50.5	590
25	TiO ₂ Nanotube Arrays of 1000 nm Length by Anodization of Titanium Foil: Phenol Red Diffusion. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 14992-14997	3.8	430
24	Artificial intelligence and deep learning in ophthalmology. <i>British Journal of Ophthalmology</i> , 2019 , 103, 167-175	5.5	365
23	Grader Variability and the Importance of Reference Standards for Evaluating Machine Learning Models for Diabetic Retinopathy. <i>Ophthalmology</i> , 2018 , 125, 1264-1272	7.3	211
22	The effect of TiO ₂ nanotubes on endothelial function and smooth muscle proliferation. <i>Biomaterials</i> , 2009 , 30, 1268-72	15.6	209
21	Impact of Deep Learning Assistance on the Histopathologic Review of Lymph Nodes for Metastatic Breast Cancer. <i>American Journal of Surgical Pathology</i> , 2018 , 42, 1636-1646	6.7	192
20	Long-term small molecule and protein elution from TiO ₂ nanotubes. <i>Nano Letters</i> , 2009 , 9, 1932-6	11.5	178
19	How to Read Articles That Use Machine Learning: Users' Guides to the Medical Literature. <i>JAMA - Journal of the American Medical Association</i> , 2019 , 322, 1806-1816	27.4	172
18	Deep learning in ophthalmology: The technical and clinical considerations. <i>Progress in Retinal and Eye Research</i> , 2019 , 72, 100759	20.5	163
17	Using a Deep Learning Algorithm and Integrated Gradients Explanation to Assist Grading for Diabetic Retinopathy. <i>Ophthalmology</i> , 2019 , 126, 552-564	7.3	122
16	Performance of a Deep-Learning Algorithm vs Manual Grading for Detecting Diabetic Retinopathy in India. <i>JAMA Ophthalmology</i> , 2019 , 137, 987-993	3.9	91
15	Fabrication of mechanically robust, large area, polycrystalline nanotubular/porous TiO ₂ membranes. <i>Journal of Membrane Science</i> , 2008 , 319, 199-205	9.6	88
14	How to develop machine learning models for healthcare. <i>Nature Materials</i> , 2019 , 18, 410-414	27	83
13	Deep learning versus human graders for classifying diabetic retinopathy severity in a nationwide screening program. <i>Npj Digital Medicine</i> , 2019 , 2, 25	15.7	68

12	Deep Learning for Predicting Refractive Error From Retinal Fundus Images 2018 , 59, 2861-2868		68
11	Deep Learning and Glaucoma Specialists: The Relative Importance of Optic Disc Features to Predict Glaucoma Referral in Fundus Photographs. <i>Ophthalmology</i> , 2019 , 126, 1627-1639	7.3	67
10	Whole genome expression analysis reveals differential effects of TiO2 nanotubes on vascular cells. <i>Nano Letters</i> , 2010 , 10, 143-8	11.5	64
9	Detection of anaemia from retinal fundus images via deep learning. <i>Nature Biomedical Engineering</i> , 2020 , 4, 18-27	19	60
8	Contractility-dependent modulation of cell proliferation and adhesion by microscale topographical cues. <i>Small</i> , 2008 , 4, 1416-24	11	44
7	Protocol for development of a reporting guideline (TRIPOD-AI) and risk of bias tool (PROBAST-AI) for diagnostic and prognostic prediction model studies based on artificial intelligence. <i>BMJ Open</i> , 2021 , 11, e048008	3	44
6	Predicting optical coherence tomography-derived diabetic macular edema grades from fundus photographs using deep learning. <i>Nature Communications</i> , 2020 , 11, 130	17.4	42
5	Collagen fibril diameter and alignment promote the quiescent keratocyte phenotype. <i>Journal of Biomedical Materials Research - Part A</i> , 2012 , 100, 613-21	5.4	37
4	Predicting the risk of developing diabetic retinopathy using deep learning. <i>The Lancet Digital Health</i> , 2021 , 3, e10-e19	14.4	36
3	Remote Tool-Based Adjudication for Grading Diabetic Retinopathy. <i>Translational Vision Science and Technology</i> , 2019 , 8, 40	3.3	12
2	Scientific Discovery by Generating Counterfactuals Using Image Translation. <i>Lecture Notes in Computer Science</i> , 2020 , 273-283	0.9	6
1	Lessons learnt from harnessing deep learning for real-world clinical applications in ophthalmology: detecting diabetic retinopathy from retinal fundus photographs 2021 , 247-264		