Lily Peng

List of Publications by Year in Descending Order

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	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. *BMJ Open*, **2021**, 11, e048008	3	44
28	Predicting the risk of developing diabetic retinopathy using deep learning. *The Lancet Digital Health*, **2021**, 3, e10-e19	14.4	36
27	Lessons learnt from harnessing deep learning for real-world clinical applications in ophthalmology: detecting diabetic retinopathy from retinal fundus photographs **2021**, 247-264		
26	Scientific Discovery by Generating Counterfactuals Using Image Translation. *Lecture Notes in Computer Science*, **2020**, 273-283	0.9	6
25	Predicting optical coherence tomography-derived diabetic macular edema grades from fundus photographs using deep learning. *Nature Communications*, **2020**, 11, 130	17.4	42
24	Detection of anaemia from retinal fundus images via deep learning. *Nature Biomedical Engineering*, **2020**, 4, 18-27	19	60
23	International evaluation of an AI system for breast cancer screening. *Nature*, **2020**, 577, 89-94	50.4	707
22	Deep Learning and Glaucoma Specialists: The Relative Importance of Optic Disc Features to Predict Glaucoma Referral in Fundus Photographs. *Ophthalmology*, **2019**, 126, 1627-1639	7.3	67
21	Performance of a Deep-Learning Algorithm vs Manual Grading for Detecting Diabetic Retinopathy in India. *JAMA Ophthalmology*, **2019**, 137, 987-993	3.9	91
20	End-to-end lung cancer screening with three-dimensional deep learning on low-dose chest computed tomography. *Nature Medicine*, **2019**, 25, 954-961	50.5	590
19	Deep learning versus human graders for classifying diabetic retinopathy severity in a nationwide screening program. *Npj Digital Medicine*, **2019**, 2, 25	15.7	68
18	How to develop machine learning models for healthcare. *Nature Materials*, **2019**, 18, 410-414	27	83
17	Deep learning in ophthalmology: The technical and clinical considerations. *Progress in Retinal and Eye Research*, **2019**, 72, 100759	20.5	163
16	How to Read Articles That Use Machine Learning: UsersWGuides to the Medical Literature. *JAMA - Journal of the American Medical Association*, **2019**, 322, 1806-1816	27.4	172
15	Remote Tool-Based Adjudication for Grading Diabetic Retinopathy. *Translational Vision Science and Technology*, **2019**, 8, 40	3.3	12
14	Using a Deep Learning Algorithm and Integrated Gradients Explanation to Assist Grading for Diabetic Retinopathy. *Ophthalmology*, **2019**, 126, 552-564	7.3	122
13	Artificial intelligence and deep learning in ophthalmology. *British Journal of Ophthalmology*, **2019**, 103, 167-175	5.5	365

12	Prediction of cardiovascular risk factors from retinal fundus photographs via deep learning. *Nature Biomedical Engineering*, **2018**, 2, 158-164	19	668
11	Grader Variability and the Importance of Reference Standards for Evaluating Machine Learning Models for Diabetic Retinopathy. *Ophthalmology*, **2018**, 125, 1264-1272	7.3	211
10	Deep Learning for Predicting Refractive Error From Retinal Fundus Images **2018**, 59, 2861-2868		68
9	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
8	Development and Validation of a Deep Learning Algorithm for Detection of Diabetic Retinopathy in Retinal Fundus Photographs. *JAMA - Journal of the American Medical Association*, **2016**, 316, 2402-2410	27.4	2967
7	Collagen fibril diameter and alignment promote the quiescent keratocyte phenotype. *Journal of Biomedical Materials Research - Part A*, **2012**, 100, 613-21	5.4	37
6	Whole genome expression analysis reveals differential effects of TiO2 nanotubes on vascular cells. *Nano Letters*, **2010**, 10, 143-8	11.5	64
5	The effect of TiO2 nanotubes on endothelial function and smooth muscle proliferation. *Biomaterials*, **2009**, 30, 1268-72	15.6	209
4	Long-term small molecule and protein elution from TiO2 nanotubes. *Nano Letters*, **2009**, 9, 1932-6	11.5	178
3	Fabrication of mechanically robust, large area, polycrystalline nanotubular/porous TiO2 membranes. *Journal of Membrane Science*, **2008**, 319, 199-205	9.6	88
2	Contractility-dependent modulation of cell proliferation and adhesion by microscale topographical cues. *Small*, **2008**, 4, 1416-24	11	44
1	TiO2 Nanotube Arrays of 1000 μm Length by Anodization of Titanium Foil: Phenol Red Diffusion. *Journal of Physical Chemistry C*, **2007**, 111, 14992-14997	3.8	430