Tairan Liu

List of Publications by Year
in descending order

16 papers	700 citations	840776 11 h-index	996975 15 g-index
16 all docs	16 docs citations	16 times ranked	729 citing authors

#	Article	IF	Citations
1	PhaseStain: the digital staining of label-free quantitative phase microscopy images using deep learning. Light: Science and Applications, 2019, 8, 23.	16.6	241
2	Deep learning-based transformation of H&E stained tissues into special stains. Nature Communications, 2021, 12, 4884.	12.8	100
3	Deep learning-based super-resolution in coherent imaging systems. Scientific Reports, 2019, 9, 3926.	3.3	82
4	Motility-based label-free detection of parasites in bodily fluids using holographic speckle analysis and deep learning. Light: Science and Applications, 2018, 7, 108.	16.6	45
5	Deep Learning-Based Holographic Polarization Microscopy. ACS Photonics, 2020, 7, 3023-3034.	6.6	41
6	Deep learning–based color holographic microscopy. Journal of Biophotonics, 2019, 12, e201900107.	2.3	36
7	Biopsy-free in vivo virtual histology of skin using deep learning. Light: Science and Applications, 2021, 10, 233.	16.6	36
8	Holographic Image Reconstruction with Phase Recovery and Autofocusing Using Recurrent Neural Networks. ACS Photonics, 2021, 8, 1763-1774.	6.6	30
9	Pathological crystal imaging with single–shot computational polarized light microscopy. Journal of Biophotonics, 2020, 13, e201960036.	2.3	23
10	Computational cytometer based on magnetically modulated coherent imaging and deep learning. Light: Science and Applications, 2019, 8, 91.	16.6	21
11	Neural network-based image reconstruction in swept-source optical coherence tomography using undersampled spectral data. Light: Science and Applications, 2021, 10, 155.	16.6	18
12	Accurate color imaging of pathology slides using holography and absorbance spectrum estimation of histochemical stains. Journal of Biophotonics, 2019, 12, e201800335.	2.3	9
13	Few-shot transfer learning for holographic image reconstruction using a recurrent neural network. APL Photonics, 2022, 7, .	5.7	8
14	Calcium pyrophosphate crystal size and characteristics. Osteoarthritis and Cartilage Open, 2021, 3, 100133.	2.0	6
15	Deep Learning-Enabled Detection and Classification of Bacterial Colonies Using a Thin-Film Transistor (TFT) Image Sensor. ACS Photonics, 2022, 9, 2455-2466.	6.6	4
16	Deep-learning-enabled Holographic Polarization Microscopy. , 2021, , .		0