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	Few-shot transfer learning for holographic image reconstruction using a recurrent neural network. APL Photonics, 2022, 7, .	5.7	8
2	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
3	Deep-learning-enabled Holographic Polarization Microscopy. , 2021, , .		0
4	Calcium pyrophosphate crystal size and characteristics. Osteoarthritis and Cartilage Open, 2021, 3, 100133.	2.0	6
5	Holographic Image Reconstruction with Phase Recovery and Autofocusing Using Recurrent Neural Networks. ACS Photonics, 2021, 8, 1763-1774.	6.6	30
6	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
7	Deep learning-based transformation of H&E stained tissues into special stains. Nature Communications, 2021, 12, 4884.	12.8	100
8	Biopsy-free in vivo virtual histology of skin using deep learning. Light: Science and Applications, 2021, 10, 233.	16.6	36
9	Pathological crystal imaging with single‐shot computational polarized light microscopy. Journal of Biophotonics, 2020, 13, e201960036.	2.3	23
10	Deep Learning-Based Holographic Polarization Microscopy. ACS Photonics, 2020, 7, 3023-3034.	6.6	41
11	Deep learning‐based color holographic microscopy. Journal of Biophotonics, 2019, 12, e201900107.	2.3	36
12	Computational cytometer based on magnetically modulated coherent imaging and deep learning. Light: Science and Applications, 2019, 8, 91.	16.6	21
13	Deep learning-based super-resolution in coherent imaging systems. Scientific Reports, 2019, 9, 3926.	3.3	82
14	PhaseStain: the digital staining of label-free quantitative phase microscopy images using deep learning. Light: Science and Applications, 2019, 8, 23.	16.6	241
15	Accurate color imaging of pathology slides using holography and absorbance spectrum estimation of histochemical stains. Journal of Biophotonics, 2019, 12, e201800335.	2.3	9
16	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