Jiamin Wu

List of Publications by Year
in descending order

57	2,003	394421	265206
papers	citations	19	42
		h-index	g-index

67	67	67	1512
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Intra-Inter View Interaction Network for Light Field Image Super-Resolution. IEEE Transactions on Multimedia, 2023, 25, 256-266.	7.2	19
2	Analog Optical Computing for Artificial Intelligence. Engineering, 2022, 10, 133-145.	6.7	32
3	Ultrahigh resolution spectral-domain optical coherence tomography using the 1000–1600–...nm spectral band. Biomedical Optics Express, 2022, 13, 1939.	2.9	4
4	Computational adaptive optics for high-resolution non-line-of-sight imaging. Optics Express, 2022, 30, 4583.	3.4	3
5	Dynamic-quenching of a single-photon avalanche photodetector using an adaptive resistive switch. Nature Communications, 2022, 13, 1517.	12.8	5
6	Review on data analysis methods for mesoscale neural imaging in vivo. Neurophotonics, 2022, 9, 041407.	3.3	2
7	Laser particle activated cell sorting in microfluidics. Lab on A Chip, 2022, 22, 2343-2351.	6.0	7
8	A practical guide to scanning light-field microscopy with digital adaptive optics. Nature Protocols, 2022, 17, 1953-1979.	12.0	4
9	A modular hierarchical array camera. Light: Science and Applications, 2021, 10, 37.	16.6	19
10	Unsupervised content-preserving transformation for optical microscopy. Light: Science and Applications, 2021, 10, 44.	16.6	50
11	Snapshot Partially Coherent Diffraction Tomography. Physical Review Applied, 2021, 15, .	3.8	3
12	Large-scale neuromorphic optoelectronic computing with a reconfigurable diffractive processing unit. Nature Photonics, 2021, 15, 367-373.	31.4	266
13	Bayesian retinex underwater image enhancement. Engineering Applications of Artificial Intelligence, 2021, 101, 104171.	8.1	144
14	Iterative tomography with digital adaptive optics permits hour-long intravital observation of 3D subcellular dynamics at millisecond scale. Cell, 2021, 184, 3318-3332.e17.	28.9	115
15	DiLFM: an artifact-suppressed and noise-robust light-field microscopy through dictionary learning. Light: Science and Applications, 2021, 10, 152.	16.6	18
16	Reinforcing neuron extraction and spike inference in calcium imaging using deep self-supervised denoising. Nature Methods, 2021, 18, 1395-1400.	19.0	70
17	Dynamic non-line-of-sight imaging system based on the optimization of point spread functions. Optics Express, 2021, 29, 32349.	3.4	25
18	Spatial-temporal low-rank prior for low-light volumetric fluorescence imaging. Optics Express, 2021, 29, 40721.	3.4	7

#	Article	IF	Citations
19	Computational optical sectioning with an incoherent multiscale scattering model for light-field microscopy. Nature Communications, 2021, 12, 6391.	12.8	39
20	Mirror-enhanced scanning light-field microscopy for long-term high-speed 3D imaging with isotropic resolution. Light: Science and Applications, 2021, 10, 227.	16.6	12
21	Augmenting vascular disease diagnosis by vasculature-aware unsupervised learning. Nature Machine Intelligence, 2020, 2, 337-346.	16.0	13
22	From Brain Science to Artificial Intelligence. Engineering, 2020, 6, 248-252.	6.7	58
23	Frequency-domain diagonal extension imaging. Advanced Photonics, 2020, 2, 1.	11.8	14
24	Confocal terahertz SAR imaging of hidden objects through rough-surface scattering. Optics Express, 2020, 28, 12405.	3.4	9
25	Improving axial resolution of Bessel beam light-sheet fluorescence microscopy by photobleaching imprinting. Optics Express, 2020, 28, 9464.	3.4	13
26	Single-shot compressed ultrafast photography based on U-net network. Optics Express, 2020, 28, 39299.	3.4	14
27	In situ optical backpropagation training of diffractive optical neural networks. Photonics Research, 2020, 8, 940.	7.0	95
28	High-speed 3D observation with multi-color light field microscopy. , 2020, , .		1
29	Saliency Segmentation with Fourier-space Diffractive Deep Neural Networks. , 2020, , .		0
30	In situ optical backpropagation training of diffractive optical neural networks: publisher's note. Photonics Research, 2020, 8, 1323.	7.0	2
31	Optical backpropagation training method and its applications. , 2020, , .		1
32	All-in-depth via Cross-baseline Light Field Camera. , 2020, , .		1
33	Wavelength-encoded laser particles for massively multiplexed cell tagging. Nature Photonics, 2019, 13, 720-727.	31.4	113
34	Video-rate imaging of biological dynamics at centimetre scale and micrometre resolution. Nature Photonics, 2019, 13, 809-816.	31.4	134
35	Fourier-space Diffractive Deep Neural Network. Physical Review Letters, 2019, 123, 023901.	7.8	182
36	Recent Advances in Computational Photography. Chinese Journal of Electronics, 2019, 28, 1-5.	1.5	4

#	Article	IF	Citations
37	DeepLFM: Deep Learning-based 3D Reconstruction for Light Field Microscopy. , 2019, , .		12
38	Phase-space deconvolution for light field microscopy. Optics Express, 2019, 27, 18131.	3.4	44
39	Deep learning based tomographic phase microscopy with blind structured illumination. , 2019, , .		0
40	Artifact-free 3D deconvolution for light field microscopy. , 2019, , .		1
41	Wavefront shaping for achieving high NA GRIN-lens-based endoscopic imaging. , 2019, , .		0
42	Solving computer vision tasks with diffractive neural networks. , 2019, , .		1
43	Compressive hyperspectral imaging mask optimization. , 2018, , .		0
44	Single-shot lensless imaging via simultaneous multi-angle LED illumination. Optics Express, 2018, 26, 21418.	3.4	22
45	GPU-based deep convolutional neural network for tomographic phase microscopy with â„"1 fitting and regularization. Journal of Biomedical Optics, 2018, 23, 1.	2.6	13
46	Dense-Wavelength-Division Laser Micro-Particles: Fabrication and Imaging in Tissues. , 2018, , .		1
47	Snapshot quantitative phase microscopy with a printed film. Optics Express, 2018, 26, 24763.	3.4	4
48	Improving collection efficiency in two-photon endoscopy with reflective waveguiding. Optics Express, 2018, 26, 32365.	3.4	3
49	Fourier ptychographic microscopy using wavelength multiplexing. Journal of Biomedical Optics, 2017, 22, 066006.	2.6	23
50	Emerging theories and technologies on computational imaging. Frontiers of Information Technology and Electronic Engineering, 2017, 18, 1207-1221.	2.6	7
51	Snapshot Hyperspectral Volumetric Microscopy. Scientific Reports, 2016, 6, 24624.	3.3	43
52	Advanced Illumination Pattern in Fourier Ptychographic Microscopy. , 2016, , .		1
53	Wavelength Multiplexed Fourier Ptychograhic Microscopy. , 2016, , .		2
54	Camera array based light field microscopy. Biomedical Optics Express, 2015, 6, 3179.	2.9	98

#	Article	IF	Citations
55	Camera array based light field microscopy. , 2015, , .		2
56	Spatial-spectral encoded compressive hyperspectral imaging. ACM Transactions on Graphics, 2014, 33, 1-11.	7.2	200
57	Coded aperture pair for quantitative phase imaging. Optics Letters, 2014, 39, 5776.	3.3	20