

# Jiamin Wu

## List of Publications by Year in descending order

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57  
papers

2,003  
citations

394421

19  
h-index

265206

42  
g-index

67  
all docs

67  
docs citations

67  
times ranked

1512  
citing authors

#	ARTICLE	IF	CITATIONS
1	Large-scale neuromorphic optoelectronic computing with a reconfigurable diffractive processing unit. <i>Nature Photonics</i> , 2021, 15, 367-373.	31.4	266
2	Spatial-spectral encoded compressive hyperspectral imaging. <i>ACM Transactions on Graphics</i> , 2014, 33, 1-11.	7.2	200
3	Fourier-space Diffractive Deep Neural Network. <i>Physical Review Letters</i> , 2019, 123, 023901.	7.8	182
4	Bayesian retinex underwater image enhancement. <i>Engineering Applications of Artificial Intelligence</i> , 2021, 101, 104171.	8.1	144
5	Video-rate imaging of biological dynamics at centimetre scale and micrometre resolution. <i>Nature Photonics</i> , 2019, 13, 809-816.	31.4	134
6	Iterative tomography with digital adaptive optics permits hour-long intravital observation of 3D subcellular dynamics at millisecond scale. <i>Cell</i> , 2021, 184, 3318-3332.e17.	28.9	115
7	Wavelength-encoded laser particles for massively multiplexed cell tagging. <i>Nature Photonics</i> , 2019, 13, 720-727.	31.4	113
8	Camera array based light field microscopy. <i>Biomedical Optics Express</i> , 2015, 6, 3179.	2.9	98
9	In situ optical backpropagation training of diffractive optical neural networks. <i>Photonics Research</i> , 2020, 8, 940.	7.0	95
10	Reinforcing neuron extraction and spike inference in calcium imaging using deep self-supervised denoising. <i>Nature Methods</i> , 2021, 18, 1395-1400.	19.0	70
11	From Brain Science to Artificial Intelligence. <i>Engineering</i> , 2020, 6, 248-252.	6.7	58
12	Unsupervised content-preserving transformation for optical microscopy. <i>Light: Science and Applications</i> , 2021, 10, 44.	16.6	50
13	Phase-space deconvolution for light field microscopy. <i>Optics Express</i> , 2019, 27, 18131.	3.4	44
14	Snapshot Hyperspectral Volumetric Microscopy. <i>Scientific Reports</i> , 2016, 6, 24624.	3.3	43
15	Computational optical sectioning with an incoherent multiscale scattering model for light-field microscopy. <i>Nature Communications</i> , 2021, 12, 6391.	12.8	39
16	Analog Optical Computing for Artificial Intelligence. <i>Engineering</i> , 2022, 10, 133-145.	6.7	32
17	Dynamic non-line-of-sight imaging system based on the optimization of point spread functions. <i>Optics Express</i> , 2021, 29, 32349.	3.4	25
18	Fourier ptychographic microscopy using wavelength multiplexing. <i>Journal of Biomedical Optics</i> , 2017, 22, 066006.	2.6	23

#	ARTICLE	IF	CITATIONS
19	Single-shot lensless imaging via simultaneous multi-angle LED illumination. Optics Express, 2018, 26, 21418.	3.4	22
20	Coded aperture pair for quantitative phase imaging. Optics Letters, 2014, 39, 5776.	3.3	20
21	A modular hierarchical array camera. Light: Science and Applications, 2021, 10, 37.	16.6	19
22	Intra-Inter View Interaction Network for Light Field Image Super-Resolution. IEEE Transactions on Multimedia, 2023, 25, 256-266.	7.2	19
23	DiLFM: an artifact-suppressed and noise-robust light-field microscopy through dictionary learning. Light: Science and Applications, 2021, 10, 152.	16.6	18
24	Frequency-domain diagonal extension imaging. Advanced Photonics, 2020, 2, 1.	11.8	14
25	Single-shot compressed ultrafast photography based on U-net network. Optics Express, 2020, 28, 39299.	3.4	14
26	Augmenting vascular disease diagnosis by vasculature-aware unsupervised learning. Nature Machine Intelligence, 2020, 2, 337-346.	16.0	13
27	GPU-based deep convolutional neural network for tomographic phase microscopy with $\ell_1$ fitting and regularization. Journal of Biomedical Optics, 2018, 23, 1.	2.6	13
28	Improving axial resolution of Bessel beam light-sheet fluorescence microscopy by photobleaching imprinting. Optics Express, 2020, 28, 9464.	3.4	13
29	DeepLFM: Deep Learning-based 3D Reconstruction for Light Field Microscopy. , 2019, , .		12
30	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
31	Confocal terahertz SAR imaging of hidden objects through rough-surface scattering. Optics Express, 2020, 28, 12405.	3.4	9
32	Emerging theories and technologies on computational imaging. Frontiers of Information Technology and Electronic Engineering, 2017, 18, 1207-1221.	2.6	7
33	Spatial-temporal low-rank prior for low-light volumetric fluorescence imaging. Optics Express, 2021, 29, 40721.	3.4	7
34	Laser particle activated cell sorting in microfluidics. Lab on A Chip, 2022, 22, 2343-2351.	6.0	7
35	Dynamic-quenching of a single-photon avalanche photodetector using an adaptive resistive switch. Nature Communications, 2022, 13, 1517.	12.8	5
36	Recent Advances in Computational Photography. Chinese Journal of Electronics, 2019, 28, 1-5.	1.5	4

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37	Snapshot quantitative phase microscopy with a printed film. Optics Express, 2018, 26, 24763.	3.4	4
38	Ultrahigh resolution spectral-domain optical coherence tomography using the 1000â€“1600â€“nm spectral band. Biomedical Optics Express, 2022, 13, 1939.	2.9	4
39	A practical guide to scanning light-field microscopy with digital adaptive optics. Nature Protocols, 2022, 17, 1953-1979.	12.0	4
40	Snapshot Partially Coherent Diffraction Tomography. Physical Review Applied, 2021, 15, .	3.8	3
41	Improving collection efficiency in two-photon endoscopy with reflective waveguiding. Optics Express, 2018, 26, 32365.	3.4	3
42	Computational adaptive optics for high-resolution non-line-of-sight imaging. Optics Express, 2022, 30, 4583.	3.4	3
43	Camera array based light field microscopy. , 2015, , .		2
44	Wavelength Multiplexed Fourier Ptychographic Microscopy. , 2016, , .		2
45	In situ optical backpropagation training of diffractive optical neural networks: publisherâ€™s note. Photonics Research, 2020, 8, 1323.	7.0	2
46	Review on data analysis methods for mesoscale neural imaging in vivo. Neurophotonics, 2022, 9, 041407.	3.3	2
47	Advanced Illumination Pattern in Fourier Ptychographic Microscopy. , 2016, , .		1
48	Dense-Wavelength-Division Laser Micro-Particles: Fabrication and Imaging in Tissues. , 2018, , .		1
49	Artifact-free 3D deconvolution for light field microscopy. , 2019, , .		1
50	Solving computer vision tasks with diffractive neural networks. , 2019, , .		1
51	High-speed 3D observation with multi-color light field microscopy. , 2020, , .		1
52	Optical backpropagation training method and its applications. , 2020, , .		1
53	All-in-depth via Cross-baseline Light Field Camera. , 2020, , .		1
54	Compressive hyperspectral imaging mask optimization. , 2018, , .		0

#	ARTICLE	IF	CITATIONS
55	Deep learning based tomographic phase microscopy with blind structured illumination. , 2019, , .		0
56	Wavefront shaping for achieving high NA GRIN-lens-based endoscopic imaging. , 2019, , .		0
57	Saliency Segmentation with Fourier-space Diffractive Deep Neural Networks. , 2020, , .		0