

# Pengming Song

## List of Publications by Year in descending order

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26  
papers

780  
citations

623734

14  
h-index

552781

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g-index

26  
all docs

26  
docs citations

26  
times ranked

317  
citing authors

#	ARTICLE	IF	CITATIONS
1	Ptychographic sensor for large-scale lensless microbial monitoring with high spatiotemporal resolution. <i>Biosensors and Bioelectronics</i> , 2022, 196, 113699.	10.1	17
2	Blood-Coated Sensor for High-Throughput Ptychographic Cytometry on a Blu-ray Disc. <i>ACS Sensors</i> , 2022, 7, 1058-1067.	7.8	19
3	High-throughput digital pathology <i>via</i> a handheld, multiplexed, and AI-powered ptychographic whole slide scanner. <i>Lab on A Chip</i> , 2022, 22, 2657-2670.	6.0	18
4	Synthetic aperture ptychography: coded sensor translation for joint spatial-Fourier bandwidth expansion. <i>Photonics Research</i> , 2022, 10, 1624.	7.0	13
5	Concept, implementations and applications of Fourier ptychography. <i>Nature Reviews Physics</i> , 2021, 3, 207-223.	26.6	180
6	Brightfield, fluorescence, and phase-contrast whole slide imaging via dual-LED autofocusing. <i>Biomedical Optics Express</i> , 2021, 12, 4651.	2.9	6
7	Bypassing the resolution limit of diffractive zone plate optics via rotational Fourier ptychography. <i>Optics Communications</i> , 2021, 493, 127031.	2.1	1
8	High-throughput lensless whole slide imaging via continuous height-varying modulation of a tilted sensor. <i>Optics Letters</i> , 2021, 46, 5212.	3.3	11
9	Resolution-Enhanced Parallel Coded Ptychography for High-Throughput Optical Imaging. <i>ACS Photonics</i> , 2021, 8, 3261-3271.	6.6	36
10	Ptychography-based high-throughput lensless on-chip microscopy via incremental proximal algorithms. <i>Optics Express</i> , 2021, 29, 37892.	3.4	6
11	Quantitative multi-height phase retrieval via a coded image sensor. <i>Biomedical Optics Express</i> , 2021, 12, 7173.	2.9	15
12	Optofluidic ptychography on a chip. <i>Lab on A Chip</i> , 2021, 21, 4549-4556.	6.0	12
13	Deep learning-enabled whole slide imaging (DeepWSI): oil-immersion quality using dry objectives, longer depth of field, higher system throughput, and better functionality. <i>Optics Express</i> , 2021, 29, 39669.	3.4	12
14	Ptychographic modulation engine: a low-cost DIY microscope add-on for coherent super-resolution imaging. <i>Journal Physics D: Applied Physics</i> , 2020, 53, 014005.	2.8	21
15	Autofocusing technologies for whole slide imaging and automated microscopy. <i>Journal of Biophotonics</i> , 2020, 13, e202000227.	2.3	60
16	Wide-field, high-resolution lensless on-chip microscopy <i>via</i> near-field blind ptychographic modulation. <i>Lab on A Chip</i> , 2020, 20, 1058-1065.	6.0	80
17	Super-resolved multispectral lensless microscopy via angle-tilted, wavelength-multiplexed ptychographic modulation. <i>Optics Letters</i> , 2020, 45, 3486.	3.3	28
18	Virtual brightfield and fluorescence staining for Fourier ptychography via unsupervised deep learning. <i>Optics Letters</i> , 2020, 45, 5405.	3.3	22

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19	OpenWSI: a low-cost, high-throughput whole slide imaging system via single-frame autofocus and open-source hardware. <i>Optics Letters</i> , 2020, 45, 260.	3.3	45
20	Rapid and robust whole slide imaging based on LED-array illumination and color-multiplexed single-shot autofocus. <i>Quantitative Imaging in Medicine and Surgery</i> , 2019, 9, 823-831.	2.0	12
21	Full-field Fourier ptychography (FFP): Spatially varying pupil modeling and its application for rapid field-dependent aberration metrology. <i>APL Photonics</i> , 2019, 4, .	5.7	32
22	Field-portable quantitative lensless microscopy based on translated speckle illumination and sub-sampled ptychographic phase retrieval. <i>Optics Letters</i> , 2019, 44, 1976.	3.3	40
23	Super-resolution microscopy via ptychographic structured modulation of a diffuser. <i>Optics Letters</i> , 2019, 44, 3645.	3.3	42
24	Group-based sparse representation for Fourier ptychography microscopy. <i>Optics Communications</i> , 2017, 404, 55-61.	2.1	10
25	Fourier ptychographic microscopy with sparse representation. <i>Scientific Reports</i> , 2017, 7, 8664.	3.3	11
26	Fourier ptychographic microscopy using a generalized Anscombe transform approximation of the mixed Poisson-Gaussian likelihood. <i>Optics Express</i> , 2017, 25, 168.	3.4	31