Lars Loetgering

List of Publications by Year
in descending order

35 papers	448 citations	11 h-index	21 g-index
35 all docs	35 docs citations	35 times ranked	368 citing authors

840776

713466

#	Article	IF	Citations
1	Advances in laboratory-scale ptychography using high harmonic sources [Invited]. Optics Express, 2022, 30, 4133.	3.4	29
2	High‐Resolution Kinoform X‐Ray Optics Printed via 405 nm 3D Laser Lithography. Advanced Materials Technologies, 2022, 7, .	5.8	6
3	aPIE: an angle calibration algorithm for reflection ptychography. Optics Letters, 2022, 47, 1949.	3.3	9
4	Material-specific high-resolution table-top extreme ultraviolet microscopy. Light: Science and Applications, 2022, 11, 117.	16.6	32
5	Addressing phase-curvature in Fourier ptychography. Optics Express, 2022, 30, 22421.	3.4	3
6	Introduction to Fourier Ptychography: Part I. Microscopy Today, 2022, 30, 36-41.	0.3	2
7	Extreme-Ultraviolet Shaping and Imaging by High-Harmonic Generation from Nanostructured Silica. Physical Review Letters, 2022, 128, .	7.8	10
8	Material-specific ptychographic imaging at 13.5 nm using a high-order harmonic source. , 2022, , .		0
9	Efficient and flexible approach to ptychography using an optimization framework based on automatic differentiation. OSA Continuum, 2021, 4, 121.	1.8	9
10	Tailoring spatial entropy in extreme ultraviolet focused beams for multispectral ptychography. Optica, 2021, 8, 130.	9.3	32
11	Ptychographic optical coherence tomography. Optics Letters, 2021, 46, 1337.	3.3	11
12	Spatial coherence control and analysis via micromirror-based mixed-state ptychography. New Journal of Physics, 2021, 23, 053016.	2.9	5
13	Tailoring spatial entropy in extreme ultraviolet focused beams for multispectral ptychography. , 2021, , .		0
14	ptyLab: a cross-platform inverse modeling toolbox for conventional and Fourier ptychography. , 2021, , .		4
15	Ptychography-based characterization of wavelength-tunable vortex beams. , 2021, , .		0
16	Ptychographic optical coherence tomography. , 2021, , .		0
17	aPIE: Angle calibration algorithm for reflection ptychography. , 2021, , .		0
18	Tailoring Spatial Entropy in Extreme Ultraviolet Focused Beams for Multispectral Ptychography. , 2021, , .		0

#	Article	IF	Citations
19	Segmentation-free, full-field Fourier ptychography. , 2021, , .		0
20	Generation and characterization of focused helical x-ray beams. Science Advances, 2020, 6, eaax8836.	10.3	21
21	Measuring laser beam quality, wavefronts, and lens aberrations using ptychography. Optics Express, 2020, 28, 5022.	3.4	25
22	Fourier ptychography: current applications and future promises. Optics Express, 2020, 28, 9603.	3.4	120
23	zPIE: an autofocusing algorithm for ptychography. Optics Letters, 2020, 45, 2030.	3.3	29
24	Comparison of propagation-based and ptychographic phase retrieval. , 2019, , .		0
25	Compression and information recovery in ptychography. Journal of Instrumentation, 2018, 13, C04019-C04019.	1.2	1
26	Quantitative ptychographic bio-imaging in the water window. Optics Express, 2018, 26, 1237.	3.4	22
27	Correction of axial position uncertainty and systematic detector errors in ptychographic diffraction imaging. Optical Engineering, 2018, 57, 1.	1.0	12
28	Double-blind digital in-line holography from multiple near-field intensities. , 2017, , .		1
29	Information recovery in propagation-based imaging with decoherence effects. Proceedings of SPIE, 2017, , .	0.8	0
30	Phase retrieval via propagation-based interferometry. Physical Review A, 2017, 95, .	2.5	10
31	Data compression strategies for ptychographic diffraction imaging. Advanced Optical Technologies, 2017, 6, 475-483.	1.7	13
32	Near-Field Diffraction Imaging from Multiple Detection Planes. Journal of Physics: Conference Series, 2017, 849, 012025.	0.4	0
33	A phase retrieval algorithm based on three-dimensionally translated diffraction patterns. Europhysics Letters, 2015, 111, 64002.	2.0	11
34	Thin film substrates from the Raman spectroscopy point of view. Journal of Raman Spectroscopy, 2014, 45, 465-469.	2.5	29
35	Tabletop coherent diffraction imaging with a discharge plasma EUV source. , 2013, , .		2