

# Lars Loetgering

## List of Publications by Year in descending order

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35  
papers

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citations

840776

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h-index

713466

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g-index

35  
all docs

35  
docs citations

35  
times ranked

368  
citing authors

#	ARTICLE	IF	CITATIONS
1	Fourier ptychography: current applications and future promises. Optics Express, 2020, 28, 9603.	3.4	120
2	Tailoring spatial entropy in extreme ultraviolet focused beams for multispectral ptychography. Optica, 2021, 8, 130.	9.3	32
3	Material-specific high-resolution table-top extreme ultraviolet microscopy. Light: Science and Applications, 2022, 11, 117.	16.6	32
4	Thin film substrates from the Raman spectroscopy point of view. Journal of Raman Spectroscopy, 2014, 45, 465-469.	2.5	29
5	zPIE: an autofocusing algorithm for ptychography. Optics Letters, 2020, 45, 2030.	3.3	29
6	Advances in laboratory-scale ptychography using high harmonic sources [Invited]. Optics Express, 2022, 30, 4133.	3.4	29
7	Measuring laser beam quality, wavefronts, and lens aberrations using ptychography. Optics Express, 2020, 28, 5022.	3.4	25
8	Quantitative ptychographic bio-imaging in the water window. Optics Express, 2018, 26, 1237.	3.4	22
9	Generation and characterization of focused helical x-ray beams. Science Advances, 2020, 6, eaax8836.	10.3	21
10	Data compression strategies for ptychographic diffraction imaging. Advanced Optical Technologies, 2017, 6, 475-483.	1.7	13
11	Correction of axial position uncertainty and systematic detector errors in ptychographic diffraction imaging. Optical Engineering, 2018, 57, 1.	1.0	12
12	A phase retrieval algorithm based on three-dimensionally translated diffraction patterns. Europhysics Letters, 2015, 111, 64002.	2.0	11
13	Ptychographic optical coherence tomography. Optics Letters, 2021, 46, 1337.	3.3	11
14	Phase retrieval via propagation-based interferometry. Physical Review A, 2017, 95, .	2.5	10
15	Extreme-Ultraviolet Shaping and Imaging by High-Harmonic Generation from Nanostructured Silica. Physical Review Letters, 2022, 128, .	7.8	10
16	Efficient and flexible approach to ptychography using an optimization framework based on automatic differentiation. OSA Continuum, 2021, 4, 121.	1.8	9
17	aPIE: an angle calibration algorithm for reflection ptychography. Optics Letters, 2022, 47, 1949.	3.3	9
18	High-Resolution Kinoform X-Ray Optics Printed via 405 nm 3D Laser Lithography. Advanced Materials Technologies, 2022, 7, .	5.8	6

#	ARTICLE	IF	CITATIONS
19	Spatial coherence control and analysis via micromirror-based mixed-state ptychography. <i>New Journal of Physics</i> , 2021, 23, 053016.	2.9	5
20	ptyLab: a cross-platform inverse modeling toolbox for conventional and Fourier ptychography. , 2021, , .		4
21	Addressing phase-curvature in Fourier ptychography. <i>Optics Express</i> , 2022, 30, 22421.	3.4	3
22	Tabletop coherent diffraction imaging with a discharge plasma EUV source. , 2013, , .		2
23	Introduction to Fourier Ptychography: Part I. <i>Microscopy Today</i> , 2022, 30, 36-41.	0.3	2
24	Double-blind digital in-line holography from multiple near-field intensities. , 2017, , .		1
25	Compression and information recovery in ptychography. <i>Journal of Instrumentation</i> , 2018, 13, C04019-C04019.	1.2	1
26	Information recovery in propagation-based imaging with decoherence effects. <i>Proceedings of SPIE</i> , 2017, , .	0.8	0
27	Near-Field Diffraction Imaging from Multiple Detection Planes. <i>Journal of Physics: Conference Series</i> , 2017, 849, 012025.	0.4	0
28	Tailoring spatial entropy in extreme ultraviolet focused beams for multispectral ptychography. , 2021, , .		0
29	Comparison of propagation-based and ptychographic phase retrieval. , 2019, , .		0
30	Ptychography-based characterization of wavelength-tunable vortex beams. , 2021, , .		0
31	Ptychographic optical coherence tomography. , 2021, , .		0
32	aPIE: Angle calibration algorithm for reflection ptychography. , 2021, , .		0
33	Tailoring Spatial Entropy in Extreme Ultraviolet Focused Beams for Multispectral Ptychography. , 2021, , .		0
34	Segmentation-free, full-field Fourier ptychography. , 2021, , .		0
35	Material-specific ptychographic imaging at 13.5 nm using a high-order harmonic source. , 2022, , .		0