

# Peng-Han Lu

## List of Publications by Year in descending order

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24  
papers

337  
citations

840776

11  
h-index

839539

18  
g-index

27  
all docs

27  
docs citations

27  
times ranked

369  
citing authors

#	ARTICLE	IF	CITATIONS
1	Continuous illumination picosecond imaging using a delay line detector in a transmission electron microscope. <i>Ultramicroscopy</i> , 2022, 233, 113392.	1.9	5
2	Imaging biological macromolecules in thick specimens: The role of inelastic scattering in cryoEM. <i>Ultramicroscopy</i> , 2022, 237, 113510.	1.9	14
3	Efficient large field of view electron phase imaging using near-field electron ptychography with a diffuser. <i>Ultramicroscopy</i> , 2021, 231, 113257.	1.9	13
4	Experimental Demonstration of an Electrostatic Orbital Angular Momentum Sorter for Electron Beams. <i>Physical Review Letters</i> , 2021, 126, 094802.	7.8	39
5	How much can inelastically scattered electrons contribute to electron cryotomography of biological specimens?. <i>Microscopy and Microanalysis</i> , 2021, 27, 3212-3214.	0.4	0
6	Single-particle cryo-EM: alternative schemes to improve dose efficiency. <i>Journal of Synchrotron Radiation</i> , 2021, 28, 1343-1356.	2.4	5
7	Peristalsis-like migration of carbon-metabolizing catalytic nanoparticles. <i>Extreme Mechanics Letters</i> , 2021, 49, 101463.	4.1	1
8	Experimental realization of $\frac{1}{2}$ vortex mode converter for electrons using a spherical aberration corrector. <i>Ultramicroscopy</i> , 2021, 229, 113340.	1.9	8
9	Shaping of Electron Beams Using Sculpted Thin Films. <i>ACS Photonics</i> , 2021, 8, 3394-3405.	6.6	8
10	Design of electrostatic phase elements for sorting the orbital angular momentum of electrons. <i>Ultramicroscopy</i> , 2020, 208, 112861.	1.9	20
11	Design, Realization and Challenges of an Orbital Angular Momentum Sorter: A New Instrument for Phase Microscopy. <i>Microscopy and Microanalysis</i> , 2020, 26, 1538-1539.	0.4	1
12	Fabrication of low aspect ratio three-element Boersch phase shifters for voltage-controlled three electron beam interference. <i>Journal of Applied Physics</i> , 2020, 128, 134502.	2.5	7
13	Generation of electron vortices using nonexact electric fields. <i>Physical Review Research</i> , 2020, 2, .	3.6	18
14	Etching-Assisted Route to Heterophase Au Nanowires with Multiple Types of Active Surface Sites for Silane Oxidation. <i>Nano Letters</i> , 2019, 19, 6363-6369.	9.1	19
15	Electron Ptychography of Single Biological Macromolecules. <i>Microscopy and Microanalysis</i> , 2019, 25, 72-73.	0.4	2
16	Nanostructuring of electron beams. <i>Physica Scripta</i> , 2019, 94, 034004.	2.5	16
17	Manipulation of dipolar magnetism in low-dimensional iron oxide nanoparticle assemblies. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 6171-6177.	2.8	10
18	Spherical aberration correction in a scanning transmission electron microscope using a sculpted thin film. <i>Ultramicroscopy</i> , 2018, 189, 46-53.	1.9	21

#	ARTICLE	IF	CITATIONS
19	Measuring the orbital angular momentum spectrum of an electron beam. Nature Communications, 2017, 8, 15536.	12.8	71
20	Generation of electron vortex beams using line charges via the electrostatic Aharonov-Bohm effect. Ultramicroscopy, 2017, 181, 191-196.	1.9	16
21	Superoscillating electron wave functions with subdiffraction spots. Physical Review A, 2017, 95, .	2.5	26
22	In-situ Observation of Shape Transformation and Surface Oxidation of Pd Nanocrystals. Microscopy and Microanalysis, 2017, 23, 912-913.	0.4	0
23	Towards a holographic approach to spherical aberration correction in scanning transmission electron microscopy. Optics Express, 2017, 25, 21851.	3.4	14
24	From Scintillator-based Detector to Direct Electron Detector: High Performance of Next Generation of Camera for In-situ TEM Testing and TEM Imaging. Microscopy and Microanalysis, 2015, 21, 343-344.	0.4	2