Peng-Han Lu

List of Publications by Year
in descending order

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		840776	839539
24	337	11	18
papers	citations	h-index	g-index

27	27	27	369
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Measuring the orbital angular momentum spectrum of an electron beam. Nature Communications, 2017, 8, 15536.	12.8	71
2	Experimental Demonstration of an Electrostatic Orbital Angular Momentum Sorter for Electron Beams. Physical Review Letters, 2021, 126, 094802.	7.8	39
3	Superoscillating electron wave functions with subdiffraction spots. Physical Review A, 2017, 95, .	2.5	26
4	Spherical aberration correction in a scanning transmission electron microscope using a sculpted thin film. Ultramicroscopy, 2018, 189, 46-53.	1.9	21
5	Design of electrostatic phase elements for sorting the orbital angular momentum of electrons. Ultramicroscopy, 2020, 208, 112861.	1.9	20
6	Etching-Assisted Route to Heterophase Au Nanowires with Multiple Types of Active Surface Sites for Silane Oxidation. Nano Letters, 2019, 19, 6363-6369.	9.1	19
7	Generation of electron vortices using nonexact electric fields. Physical Review Research, 2020, 2, .	3.6	18
8	Generation of electron vortex beams using line charges via the electrostatic Aharonov-Bohm effect. Ultramicroscopy, 2017, 181, 191-196.	1.9	16
9	Nanostructuring of electron beams. Physica Scripta, 2019, 94, 034004.	2.5	16
10	Towards a holographic approach to spherical aberration correction in scanning transmission electron microscopy. Optics Express, 2017, 25, 21851.	3.4	14
11	Imaging biological macromolecules in thick specimens: The role of inelastic scattering in cryoEM. Ultramicroscopy, 2022, 237, 113510.	1.9	14
12	Efficient large field of view electron phase imaging using near-field electron ptychography with a diffuser. Ultramicroscopy, 2021, 231, 113257.	1.9	13
13	Manipulation of dipolar magnetism in low-dimensional iron oxide nanoparticle assemblies. Physical Chemistry Chemical Physics, 2019, 21, 6171-6177.	2.8	10
14	Experimental realization of aâ€‰<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e889" altimg="si21.svg"><mml:mi>Ï€</mml:mi></mml:math>/2 vortex mode converter for electrons using a spherical aberration corrector. Ultramicroscopy, 2021, 229, 113340.	1.9	8
15	Shaping of Electron Beams Using Sculpted Thin Films. ACS Photonics, 2021, 8, 3394-3405.	6.6	8
16	Fabrication of low aspect ratio three-element Boersch phase shifters for voltage-controlled three electron beam interference. Journal of Applied Physics, 2020, 128, 134502.	2.5	7
17	Single-particle cryo-EM: alternative schemes to improve dose efficiency. Journal of Synchrotron Radiation, 2021, 28, 1343-1356.	2.4	5
18	Continuous illumination picosecond imaging using a delay line detector in a transmission electron microscope. Ultramicroscopy, 2022, 233, 113392.	1.9	5

#	Article	IF	Citations
19	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
20	Electron Ptychography of Single Biological Macromolecules. Microscopy and Microanalysis, 2019, 25, 72-73.	0.4	2
21	Design, Realization and Challenges of an Orbital Angular Momentum Sorter: A New Instrument for Phase Microscopy. Microscopy and Microanalysis, 2020, 26, 1538-1539.	0.4	1
22	Peristalsis-like migration of carbon-metabolizing catalytic nanoparticles. Extreme Mechanics Letters, 2021, 49, 101463.	4.1	1
23	In-situ Observation of Shape Transformation and Surface Oxidation of Pd Nanocrystals. Microscopy and Microanalysis, 2017, 23, 912-913.	0.4	0
24	How much can inelastically scattered electrons contribute to electron cryotomography of biological specimens?. Microscopy and Microanalysis, 2021, 27, 3212-3214.	0.4	0