

# Ming Lu

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7264732/publications.pdf>

Version: 2024-02-01

49  
papers

2,381  
citations

304743

22  
h-index

223800

46  
g-index

49  
all docs

49  
docs citations

49  
times ranked

3451  
citing authors

#	ARTICLE	IF	CITATIONS
1	A High-Throughput MEMS-Based Differential Scanning Calorimeter for Direct Thermal Characterization of Antibodies. <i>Biosensors</i> , 2022, 12, 422.	4.7	2
2	Thermo-mechanical modeling and experimental validation for multilayered metallic microstructures. <i>Microsystem Technologies</i> , 2021, 27, 2579-2587.	2.0	15
3	Multilayered microstructures with shape memory effects for vertical deployment. <i>Microsystem Technologies</i> , 2021, 27, 3325-3332.	2.0	12
4	Current divisions and distributed Joule heating of two-dimensional grid microstructures. <i>Microsystem Technologies</i> , 2021, 27, 3339-3347.	2.0	11
5	Electro-thermal modeling and experimental validation for multilayered metallic microstructures. <i>Microsystem Technologies</i> , 2021, 27, 2041-2048.	2.0	16
6	Design nanoporous metal thin films <i>via</i> solid state interfacial dealloying. <i>Nanoscale</i> , 2021, 13, 17725-17736.	5.6	9
7	Negative Capacitance MgZnO-Channel Thin-Film Transistor With Ferroelectric NiMgZnO in the Gate Stack. <i>IEEE Electron Device Letters</i> , 2021, 42, 355-358.	3.9	5
8	MgZnO-Based Negative Capacitance Transparent Thin-Film Transistor Built on Glass. <i>IEEE Journal of the Electron Devices Society</i> , 2021, 9, 798-803.	2.1	2
9	Micromachined Silicon Platform for Precise Assembly of 2D Multilayer Laue Lenses for High-Resolution X-ray Microscopy. <i>Micromachines</i> , 2020, 11, 939.	2.9	2
10	Ultrafast x-ray diffraction study of melt-front dynamics in polycrystalline thin films. <i>Science Advances</i> , 2020, 6, eaax2445.	10.3	21
11	Effects of deposition and annealing conditions on the crystallisation of NiTi thin films by <i>e-beam</i> evaporation. <i>Micro and Nano Letters</i> , 2020, 15, 670-673.	1.3	14
12	Shape Memory Alloy Bimorph Microactuators by Lift-Off Process. <i>Journal of Micro and Nano-Manufacturing</i> , 2020, 8, .	0.7	19
13	2D MEMS-based multilayer Laue lens nanofocusing optics for high-resolution hard x-ray microscopy. <i>Optics Express</i> , 2020, 28, 17660.	3.4	9
14	Patterning Si at the 1 nm Length Scale with Aberration-Corrected Electron-Beam Lithography: Tuning of Plasmonic Properties by Design. <i>Advanced Functional Materials</i> , 2019, 29, 1903429.	14.9	39
15	Advancing next generation nanolithography with infiltration synthesis of hybrid nanocomposite resists. <i>Journal of Materials Chemistry C</i> , 2019, 7, 8803-8812.	5.5	30
16	Dielectric metasurfaces for complete and independent control of the optical amplitude and phase. <i>Light: Science and Applications</i> , 2019, 8, 92.	16.6	278
17	Hybrid Metasurface-Based Mid-Infrared Biosensor for Simultaneous Quantification and Identification of Monolayer Protein. <i>ACS Photonics</i> , 2019, 6, 501-509.	6.6	47
18	Bi-continuous pattern formation in thin films <i>via</i> solid-state interfacial dealloying studied by multimodal characterization. <i>Materials Horizons</i> , 2019, 6, 1991-2002.	12.2	28

#	ARTICLE	IF	CITATIONS
19	Charge density wave memory in a cuprate superconductor. Nature Communications, 2019, 10, 1435.	12.8	30
20	1â€nm Si Patterning: Patterning Si at the 1 nm Length Scale with Aberrationâ€Corrected Electronâ€Beam Lithography: Tuning of Plasmonic Properties by Design (Adv. Funct. Mater. 52/2019). Advanced Functional Materials, 2019, 29, 1970353.	14.9	2
21	Resolving 500 nm axial separation by multi-slice X-ray ptychography. Acta Crystallographica Section A: Foundations and Advances, 2019, 75, 336-341.	0.1	7
22	Broadband achromatic dielectric metalenses. Light: Science and Applications, 2018, 7, 85.	16.6	449
23	Optical conductivity-based ultrasensitive mid-infrared biosensing on a hybrid metasurface. Light: Science and Applications, 2018, 7, 67.	16.6	98
24	Single-Digit Nanometer Electron-Beam Lithography with an Aberration-Corrected Scanning Transmission Electron Microscope. Journal of Visualized Experiments, 2018, , .	0.3	4
25	Nanostructured fibers as a versatile photonic platform: radiative cooling and waveguiding through transverse Anderson localization. Light: Science and Applications, 2018, 7, 37.	16.6	60
26	Indium Tin Oxide Broadband Metasurface Absorber. ACS Photonics, 2018, 5, 3526-3533.	6.6	78
27	Controlling propagation and coupling of waveguide modes using phase-gradient metasurfaces. Nature Nanotechnology, 2017, 12, 675-683.	31.5	323
28	Atomic Layer-Deposited Titanium-Doped Vanadium Oxide Thin Films and Their Thermistor Applications. Journal of Electronic Materials, 2017, 46, 2153-2157.	2.2	12
29	Review of MEMS differential scanning calorimetry for biomolecular study. Frontiers of Mechanical Engineering, 2017, 12, 526-538.	4.3	27
30	Anomalous Growth Rate of Ag Nanocrystals Revealed by in situ STEM. Scientific Reports, 2017, 7, 16420.	3.3	7
31	A metal-insulator transition study of VO2 thin films grown on sapphire substrates. Journal of Applied Physics, 2017, 122, .	2.5	33
32	External cavity cascade diode lasers tunable from 3.05 to 3.25â€%â€%â€¼m. Optical Engineering, 2017, 57, 1.	1.0	7
33	Ar+Implanted Si-Waveguide Photodiodes for Mid-Infrared Detection. Photonics, 2016, 3, 46.	2.0	3
34	High-Spectral-Contrast Symmetric Modes in Photonic Crystal Dual Nanobeam Resonators. IEEE Photonics Technology Letters, 2016, 28, 2137-2140.	2.5	3
35	Micro-differential scanning calorimeter for liquid biological samples. Review of Scientific Instruments, 2016, 87, 105005.	1.3	25
36	Active metasurface devices based on correlated perovskites. , 2016, , .		0

#	ARTICLE	IF	CITATIONS
37	Organic Relay Carry Generator and Logic Gates. IEEE Electron Device Letters, 2016, 37, 1351-1353.	3.9	0
38	Correlated Perovskites as a New Platform for Superbroadband-Tunable Photonics. Advanced Materials, 2016, 28, 9117-9125.	21.0	72
39	MgZnO High Voltage Thin Film Transistors on Glass for Inverters in Building Integrated Photovoltaics. Scientific Reports, 2016, 6, 34169.	3.3	26
40	Narrow Ridge $\lambda \approx 3 \mu\text{m}$ Cascade Diode Lasers With Output Power Above 100 mW at Room Temperature. IEEE Photonics Technology Letters, 2015, 27, 2425-2428.	2.5	10
41	Coherent spin control of a nanocavity-enhanced qubit in diamond. Nature Communications, 2015, 6, 6173.	12.8	144
42	Photon transport enhanced by transverse Anderson localization in disordered superlattices. Nature Physics, 2015, 11, 268-274.	16.7	59
43	Pushing the limits: an instrument for hard X-ray imaging below 20 nm. Journal of Synchrotron Radiation, 2015, 22, 336-341.	2.4	71
44	Nanofabrication on unconventional substrates using transferred hard masks. Scientific Reports, 2015, 5, 7802.	3.3	50
45	High-density waveguide superlattices with low crosstalk. Nature Communications, 2015, 6, 7027.	12.8	116
46	Diffraction limited 3.15 $\mu\text{m}$ cascade diode lasers. , 2014, , .		0
47	Antiferromagnetic domain structure in bilayer manganite. Physical Review B, 2013, 88, .	3.2	5
48	Feedback and harmonic locking of slot-type optomechanical oscillators to external low-noise reference clocks. Applied Physics Letters, 2013, 102, .	3.3	10
49	Two dimensional hard x-ray nanofocusing with crossed multilayer Laue lenses. Optics Express, 2011, 19, 15069.	3.4	91