

Ming Lu

List of Publications by Year in descending order

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49
papers

2,381
citations

304368

22
h-index

223531

46
g-index

49
all docs

49
docs citations

49
times ranked

3451
citing authors

#	ARTICLE	IF	CITATIONS
1	Broadband achromatic dielectric metalenses. <i>Light: Science and Applications</i> , 2018, 7, 85.	7.7	449
2	Controlling propagation and coupling of waveguide modes using phase-gradient metasurfaces. <i>Nature Nanotechnology</i> , 2017, 12, 675-683.	15.6	323
3	Dielectric metasurfaces for complete and independent control of the optical amplitude and phase. <i>Light: Science and Applications</i> , 2019, 8, 92.	7.7	278
4	Coherent spin control of a nanocavity-enhanced qubit in diamond. <i>Nature Communications</i> , 2015, 6, 6173.	5.8	144
5	High-density waveguide superlattices with low crosstalk. <i>Nature Communications</i> , 2015, 6, 7027.	5.8	116
6	Optical conductivity-based ultrasensitive mid-infrared biosensing on a hybrid metasurface. <i>Light: Science and Applications</i> , 2018, 7, 67.	7.7	98
7	Two dimensional hard x-ray nanofocusing with crossed multilayer Laue lenses. <i>Optics Express</i> , 2011, 19, 15069.	1.7	91
8	Indium Tin Oxide Broadband Metasurface Absorber. <i>ACS Photonics</i> , 2018, 5, 3526-3533.	3.2	78
9	Correlated Perovskites as a New Platform for Superbroadband Tunable Photonics. <i>Advanced Materials</i> , 2016, 28, 9117-9125.	11.1	72
10	Pushing the limits: an instrument for hard X-ray imaging below 20 nm. <i>Journal of Synchrotron Radiation</i> , 2015, 22, 336-341.	1.0	71
11	Nanostructured fibers as a versatile photonic platform: radiative cooling and waveguiding through transverse Anderson localization. <i>Light: Science and Applications</i> , 2018, 7, 37.	7.7	60
12	Photon transport enhanced by transverse Anderson localization in disordered superlattices. <i>Nature Physics</i> , 2015, 11, 268-274.	6.5	59
13	Nanofabrication on unconventional substrates using transferred hard masks. <i>Scientific Reports</i> , 2015, 5, 7802.	1.6	50
14	Hybrid Metasurface-Based Mid-Infrared Biosensor for Simultaneous Quantification and Identification of Monolayer Protein. <i>ACS Photonics</i> , 2019, 6, 501-509.	3.2	47
15	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.	7.8	39
16	A metal-insulator transition study of VO ₂ thin films grown on sapphire substrates. <i>Journal of Applied Physics</i> , 2017, 122, .	1.1	33
17	Advancing next generation nanolithography with infiltration synthesis of hybrid nanocomposite resists. <i>Journal of Materials Chemistry C</i> , 2019, 7, 8803-8812.	2.7	30
18	Charge density wave memory in a cuprate superconductor. <i>Nature Communications</i> , 2019, 10, 1435.	5.8	30

#	ARTICLE	IF	CITATIONS
19	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.	6.4	28
20	Review of MEMS differential scanning calorimetry for biomolecular study. <i>Frontiers of Mechanical Engineering</i> , 2017, 12, 526-538.	2.5	27
21	MgZnO High Voltage Thin Film Transistors on Glass for Inverters in Building Integrated Photovoltaics. <i>Scientific Reports</i> , 2016, 6, 34169.	1.6	26
22	Micro-differential scanning calorimeter for liquid biological samples. <i>Review of Scientific Instruments</i> , 2016, 87, 105005.	0.6	25
23	Ultrafast x-ray diffraction study of melt-front dynamics in polycrystalline thin films. <i>Science Advances</i> , 2020, 6, eaax2445.	4.7	21
24	Shape Memory Alloy Bimorph Microactuators by Lift-Off Process. <i>Journal of Micro and Nano-Manufacturing</i> , 2020, 8, .	0.8	19
25	Electro-thermal modeling and experimental validation for multilayered metallic microstructures. <i>Microsystem Technologies</i> , 2021, 27, 2041-2048.	1.2	16
26	Thermo-mechanical modeling and experimental validation for multilayered metallic microstructures. <i>Microsystem Technologies</i> , 2021, 27, 2579-2587.	1.2	15
27	Effects of deposition and annealing conditions on the crystallisation of NiTi thin films by <i>e</i> -beam evaporation. <i>Micro and Nano Letters</i> , 2020, 15, 670-673.	0.6	14
28	Atomic Layer-Deposited Titanium-Doped Vanadium Oxide Thin Films and Their Thermistor Applications. <i>Journal of Electronic Materials</i> , 2017, 46, 2153-2157.	1.0	12
29	Multilayered microstructures with shape memory effects for vertical deployment. <i>Microsystem Technologies</i> , 2021, 27, 3325-3332.	1.2	12
30	Current divisions and distributed Joule heating of two-dimensional grid microstructures. <i>Microsystem Technologies</i> , 2021, 27, 3339-3347.	1.2	11
31	Feedback and harmonic locking of slot-type optomechanical oscillators to external low-noise reference clocks. <i>Applied Physics Letters</i> , 2013, 102, .	1.5	10
32	Narrow Ridge $\lambda \approx 3\mu\text{m}$ Cascade Diode Lasers With Output Power Above 100 mW at Room Temperature. <i>IEEE Photonics Technology Letters</i> , 2015, 27, 2425-2428.	1.3	10
33	Design nanoporous metal thin films <i>via</i> solid state interfacial dealloying. <i>Nanoscale</i> , 2021, 13, 17725-17736.	2.8	9
34	2D MEMS-based multilayer Laue lens nanofocusing optics for high-resolution hard x-ray microscopy. <i>Optics Express</i> , 2020, 28, 17660.	1.7	9
35	Anomalous Growth Rate of Ag Nanocrystals Revealed by in situ STEM. <i>Scientific Reports</i> , 2017, 7, 16420.	1.6	7
36	Resolving 500 nm axial separation by multi-slice X-ray ptychography. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2019, 75, 336-341.	0.0	7

#	ARTICLE	IF	CITATIONS
37	External cavity cascade diode lasers tunable from 3.05 to 3.25 μm . Optical Engineering, 2017, 57, 1.	0.5	7
38	Antiferromagnetic domain structure in bilayer manganite. Physical Review B, 2013, 88, .	1.1	5
39	Negative Capacitance MgZnO-Channel Thin-Film Transistor With Ferroelectric NiMgZnO in the Gate Stack. IEEE Electron Device Letters, 2021, 42, 355-358.	2.2	5
40	Single-Digit Nanometer Electron-Beam Lithography with an Aberration-Corrected Scanning Transmission Electron Microscope. Journal of Visualized Experiments, 2018, , .	0.2	4
41	Ar ⁺ -Implanted Si-Waveguide Photodiodes for Mid-Infrared Detection. Photonics, 2016, 3, 46.	0.9	3
42	High-Spectral-Contrast Symmetric Modes in Photonic Crystal Dual Nanobeam Resonators. IEEE Photonics Technology Letters, 2016, 28, 2137-2140.	1.3	3
43	1 μm Si Patterning: Patterning Si at the 1 nm Length Scale with Aberration-Corrected Electron-Beam Lithography: Tuning of Plasmonic Properties by Design (Adv. Funct. Mater. 52/2019). Advanced Functional Materials, 2019, 29, 1970353.	7.8	2
44	Micromachined Silicon Platform for Precise Assembly of 2D Multilayer Laue Lenses for High-Resolution X-ray Microscopy. Micromachines, 2020, 11, 939.	1.4	2
45	MgZnO-Based Negative Capacitance Transparent Thin-Film Transistor Built on Glass. IEEE Journal of the Electron Devices Society, 2021, 9, 798-803.	1.2	2
46	A High-Throughput MEMS-Based Differential Scanning Calorimeter for Direct Thermal Characterization of Antibodies. Biosensors, 2022, 12, 422.	2.3	2
47	Diffraction limited 3.15 μm cascade diode lasers. , 2014, , .		0
48	Active metasurface devices based on correlated perovskites. , 2016, , .		0
49	Organic Relay Carry Generator and Logic Gates. IEEE Electron Device Letters, 2016, 37, 1351-1353.	2.2	0