Ming Liu

List of Publications by Year
in descending order

37 papers	8,402 citations	361045 20 h-index	454577 30 g-index
37 all docs	37 docs citations	37 times ranked	10229 citing authors

#	Article	IF	Citations
1	A graphene-based broadband optical modulator. Nature, 2011, 474, 64-67.	13.7	2,956
2	Plasmon-Induced Transparency in Metamaterials. Physical Review Letters, 2008, 101, 047401.	2.9	2,020
3	Switching terahertz waves with gate-controlled active graphene metamaterials. Nature Materials, 2012, 11, 936-941.	13.3	777
4	Double-Layer Graphene Optical Modulator. Nano Letters, 2012, 12, 1482-1485.	4.5	731
5	Observation of piezoelectricity in free-standing monolayer MoS2. Nature Nanotechnology, 2015, 10, 151-155.	15.6	685
6	Light-driven nanoscale plasmonic motors. Nature Nanotechnology, 2010, 5, 570-573.	15.6	317
7	Probing the electromagnetic field of a 15-nanometre hotspot by single molecule imaging. Nature, 2011, 469, 385-388.	13.7	240
8	Capillary-Force-Assisted Clean-Stamp Transfer of Two-Dimensional Materials. Nano Letters, 2017, 17, 6961-6967.	4.5	98
9	Polarized incandescent light emission from carbon nanotubes. Applied Physics Letters, 2003, 82, 1763-1765.	1.5	87
10	High external-efficiency nanofocusing for lens-free near-field optical nanoscopy. Nature Photonics, 2019, 13, 636-643.	15.6	67
11	Toward High-Contrast Atomic Force Microscopy-Tip-Enhanced Raman Spectroscopy Imaging: Nanoantenna-Mediated Remote-Excitation on Sharp-Tip Silver Nanowire Probes. Nano Letters, 2019, 19, 100-107.	4.5	49
12	Monitoring the growth of carbon nanotubes by carbon isotope labelling. Nanotechnology, 2003, 14, 1118-1123.	1.3	46
13	Plasmon-boosted magneto-optics. Nature Photonics, 2013, 7, 429-430.	15.6	37
14	Graphene benefits. Nature Photonics, 2013, 7, 851-852.	15.6	33
15	Optical MÃ¶bius Symmetry in Metamaterials. Physical Review Letters, 2010, 105, 235501.	2.9	30
16	Sharp-Tip Silver Nanowires Mounted on Cantilevers for High-Aspect-Ratio High-Resolution Imaging. Nano Letters, 2016, 16, 6896-6902.	4.5	30
17	A review for compact model of graphene field-effect transistors. Chinese Physics B, 2017, 26, 036804.	0.7	26
18	Decoupling co-existing surface plasmon polariton (SPP) modes in a nanowire plasmonic waveguide for quantitative mode analysis. Nano Research, 2017, 10, 2395-2404.	5.8	25

#	Article	IF	Citations
19	Measuring the stress in field-emitting carbon nanotubes. Nanotechnology, 2006, 17, 1994-1998.	1.3	23
20	Experimental Study on Thermal Conductivity and Rectification in Suspended Monolayer MoS₂. ACS Applied Materials & Interfaces, 2020, 12, 28306-28312.	4.0	20
21	Experimental study on thermal conductivity and rectification of monolayer and multilayer MoS2. International Journal of Heat and Mass Transfer, 2021, 170, 121013.	2.5	20
22	Ultra-sharp and surfactant-free silver nanowire for scanning tunneling microscopy and tip-enhanced Raman spectroscopy. Nanoscale, 2019, 11, 7790-7797.	2.8	17
23	Field emission from self-assembly structure of carbon-nanotube films. Applied Surface Science, 2005, 250, 9-13.	3.1	12
24	6â€‰nm super-resolution optical transmission and scattering spectroscopic imaging of carbon nanotubes using a nanometer-scale white light source. Nature Communications, 2021, 12, 6868.	5.8	12
25	The effects of Î³-ray irradiation on graphene/n-Si Schottky diodes. Applied Physics Express, 2019, 12, 061004.	1.1	11
26	Photochemically Induced Phase Change in Monolayer Molybdenum Disulfide. Frontiers in Chemistry, 2019, 7, 442.	1.8	8
27	Thermal Rectifier and Thermal Transistor of 1T/2H MoS₂ for Heat Flow Management. ACS Applied Materials & Interfaces, 2022, 14, 4434-4442.	4.0	7
28	Graphene optical modulator. , 2011, , .		5
29	Physics-Guided Neural-Network-Based Inverse Design of a Photonicâ€“Plasmonic Nanodevice for Superfocusing. ACS Applied Materials & Interfaces, 2022, 14, 27397-27404.	4.0	4
30	Publisherâ€™s Note: Optical MÃ¶bius Symmetry in Metamaterials [Phys. Rev. Lett.105, 235501 (2010)]. Physical Review Letters, 2010, 105, .	2.9	3
31	Circular-polarization modulator. Nature Photonics, 2017, 11, 614-616.	15.6	3
32	Systematic transient characterization of graphene interconnects for on-chip ESD protection. , 2016, , .		2
33	Graphene for next-generation optical communication. SPIE Newsroom, 0, , .	0.1	1
34	Gate-controlled active graphene metamaterials at terahertz frequencies. , 2012, , .		0
35	Graphene, plasmonic and silicon optical modulators. , 2013, , .		0
36	Advancements in Plasmonic and Graphene-based high-performance Modulators. , 2013, , .		0

#	Article	IF	Citations
37	Progresses in graphene optical modulator. , 2012, , .		0