Peining Li

List of Publications by Year
in descending order

33 papers	3,310 citations	257101 24 h-index	414034 32 g-index
33 all docs	33 docs citations	33 times ranked	2901 citing authors

#	Article	IF	Citations
1	Canalization acoustic phonon polaritons in metal-MoO₃-metal sandwiched structures for nano-light guiding and manipulation. Journal of Optics (United Kingdom), 2022, 24, 024006.	1.0	7
2	Near-field mapping of complex-valued wavevectors of in-plane hyperbolic phonon polaritons in <i>Î±</i> -MoO3. Applied Physics Letters, 2022, 120, .	1.5	4
3	Real-space nanoimaging of THz polaritons in the topological insulator Bi2Se3. Nature Communications, 2022, 13, 1374.	5.8	33
4	Manipulating polaritons at the extreme scale in van der Waals materials. Nature Reviews Physics, 2022, 4, 578-594.	11.9	51
5	Real-space observation of vibrational strong coupling between propagating phonon polaritons and organic molecules. Nature Photonics, 2021, 15, 197-202.	15.6	90
6	Enhanced Lightâ€"Matter Interaction in ¹⁰B Monoisotopic Boron Nitride Infrared Nanoresonators. Advanced Optical Materials, 2021, 9, 2001958.	3.6	24
7	Ghost hyperbolic surface polaritons in bulk anisotropic crystals. Nature, 2021, 596, 362-366.	13.7	102
8	Interface nano-optics with van der Waals polaritons. Nature, 2021, 597, 187-195.	13.7	143
9	Terahertz Nanoimaging and Nanospectroscopy of Chalcogenide Phase-Change Materials. ACS Photonics, 2020, 7, 3499-3506.	3.2	29
10	Collective near-field coupling and nonlocal phenomena in infrared-phononic metasurfaces for nano-light canalization. Nature Communications, 2020, 11, 3663.	5.8	70
11	Extremely Confined Acoustic Phonon Polaritons in Monolayer-hBN/Metal Heterostructures for Strong Lightâ€"Matter Interactions. ACS Photonics, 2020, 7, 2610-2617.	3.2	33
12	Nanoscale Guiding of Infrared Light with Hyperbolic Volume and Surface Polaritons in van der Waals Material Ribbons. Advanced Materials, 2020, 32, e1906530.	11.1	29
13	Anisotropic polaritons in van der Waals materials. InformaÄnÃ-MateriÃ¡ly, 2020, 2, 777-790.	8.5	36
14	Launching of hyperbolic phonon-polaritons in h-BN slabs by resonant metal plasmonic antennas. Nature Communications, 2019, 10, 3242.	5.8	56
15	Highly Confined and Switchable Mid-Infrared Surface Phonon Polariton Resonances of Planar Circular Cavities with a Phase Change Material. Nano Letters, 2019, 19, 2549-2554.	4.5	43
16	Infrared hyperbolic metasurface based on nanostructured van der Waals materials. , 2019, , .		1
17	Infrared hyperbolic metasurface based on nanostructured van der Waals materials. Science, 2018, 359, 892-896.	6.0	344
18	Boron nitride nanoresonators for phonon-enhanced molecular vibrational spectroscopy at the strong coupling limit. Light: Science and Applications, 2018, 7, 17172-17172.	7.7	257

#	Article	IF	Citations
19	In-plane anisotropic and ultra-low-loss polaritons in a natural van der Waals crystal. Nature, 2018, 562, 557-562.	13.7	506
20	Optical Nanoimaging of Hyperbolic Surface Polaritons at the Edges of van der Waals Materials. Nano Letters, 2017, 17, 228-235.	4.5	107
21	Phonon-Polaritonic Bowtie Nanoantennas: Controlling Infrared Thermal Radiation at the Nanoscale. ACS Photonics, 2017, 4, 1753-1760.	3.2	114
22	Nanoimaging of resonating hyperbolic polaritons in linear boron nitride antennas. Nature Communications, 2017, 8, 15624.	5.8	121
23	Acoustic Graphene Plasmon Nanoresonators for Field-Enhanced Infrared Molecular Spectroscopy. ACS Photonics, 2017, 4, 3089-3097.	3.2	43
24	Reversible optical switching of highly confined phononâ€“polaritons with an ultrathin phase-changeÂmaterial. Nature Materials, 2016, 15, 870-875.	13.3	330
25	Exploring the detection limits of infrared near-field microscopy regarding small buried structures and pushing them by exploiting superlens-related effects. Optics Express, 2016, 24, 4431.	1.7	11
26	Understanding the conductive channel evolution in Na:WO_{3âˆ’x}-based planar devices. Nanoscale, 2015, 7, 6023-6030.	2.8	15
27	Hyperbolic phonon-polaritons in boron nitride for near-field optical imaging and focusing. Nature Communications, 2015, 6, 7507.	5.8	399
28	Graphene-Enhanced Infrared Near-Field Microscopy. Nano Letters, 2014, 14, 4400-4405.	4.5	48
29	Optical Properties of Single Infrared Resonant Circular Microcavities for Surface Phonon Polaritons. Nano Letters, 2013, 13, 5051-5055.	4.5	101
30	Multi-wavelength superlensing with layered phonon-resonant dielectrics. Optics Express, 2012, 20, 11787.	1.7	19
31	Broadband Subwavelength Imaging Using a Tunable Graphene-Lens. ACS Nano, 2012, 6, 10107-10114.	7.3	118
32	Electrically controlled multifrequency ferroelectric cloak. Optics Express, 2010, 18, 12646.	1.7	8
33	Multichannel filtering properties of photonic crystals consisting of single-negative materials. Physics Letters, Section A: General, Atomic and Solid State Physics, 2009, 373, 1870-1873.	0.9	18