

Peining Li

List of Publications by Year in descending order

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Version: 2024-02-01

33
papers

3,310
citations

257101

24
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414034

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33
all docs

33
docs citations

33
times ranked

2901
citing authors

#	ARTICLE	IF	CITATIONS
1	In-plane anisotropic and ultra-low-loss polaritons in a natural van der Waals crystal. <i>Nature</i> , 2018, 562, 557-562.	13.7	506
2	Hyperbolic phonon-polaritons in boron nitride for near-field optical imaging and focusing. <i>Nature Communications</i> , 2015, 6, 7507.	5.8	399
3	Infrared hyperbolic metasurface based on nanostructured van der Waals materials. <i>Science</i> , 2018, 359, 892-896.	6.0	344
4	Reversible optical switching of highly confined phonon-polaritons with an ultrathin phase-change material. <i>Nature Materials</i> , 2016, 15, 870-875.	13.3	330
5	Boron nitride nanoresonators for phonon-enhanced molecular vibrational spectroscopy at the strong coupling limit. <i>Light: Science and Applications</i> , 2018, 7, 17172-17172.	7.7	257
6	Interface nano-optics with van der Waals polaritons. <i>Nature</i> , 2021, 597, 187-195.	13.7	143
7	Nanoimaging of resonating hyperbolic polaritons in linear boron nitride antennas. <i>Nature Communications</i> , 2017, 8, 15624.	5.8	121
8	Broadband Subwavelength Imaging Using a Tunable Graphene-Lens. <i>ACS Nano</i> , 2012, 6, 10107-10114.	7.3	118
9	Phonon-Polaritonic Bowtie Nanoantennas: Controlling Infrared Thermal Radiation at the Nanoscale. <i>ACS Photonics</i> , 2017, 4, 1753-1760.	3.2	114
10	Optical Nanoimaging of Hyperbolic Surface Polaritons at the Edges of van der Waals Materials. <i>Nano Letters</i> , 2017, 17, 228-235.	4.5	107
11	Ghost hyperbolic surface polaritons in bulk anisotropic crystals. <i>Nature</i> , 2021, 596, 362-366.	13.7	102
12	Optical Properties of Single Infrared Resonant Circular Microcavities for Surface Phonon Polaritons. <i>Nano Letters</i> , 2013, 13, 5051-5055.	4.5	101
13	Real-space observation of vibrational strong coupling between propagating phonon polaritons and organic molecules. <i>Nature Photonics</i> , 2021, 15, 197-202.	15.6	90
14	Collective near-field coupling and nonlocal phenomena in infrared-phononic metasurfaces for nano-light canalization. <i>Nature Communications</i> , 2020, 11, 3663.	5.8	70
15	Launching of hyperbolic phonon-polaritons in h-BN slabs by resonant metal plasmonic antennas. <i>Nature Communications</i> , 2019, 10, 3242.	5.8	56
16	Manipulating polaritons at the extreme scale in van der Waals materials. <i>Nature Reviews Physics</i> , 2022, 4, 578-594.	11.9	51
17	Graphene-Enhanced Infrared Near-Field Microscopy. <i>Nano Letters</i> , 2014, 14, 4400-4405.	4.5	48
18	Acoustic Graphene Plasmon Nanoresonators for Field-Enhanced Infrared Molecular Spectroscopy. <i>ACS Photonics</i> , 2017, 4, 3089-3097.	3.2	43

#	ARTICLE	IF	CITATIONS
19	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
20	Anisotropic polaritons in van der Waals materials. Informa ^Å n ^Å -Materi ^Å ly, 2020, 2, 777-790.	8.5	36
21	Extremely Confined Acoustic Phonon Polaritons in Monolayer-hBN/Metal Heterostructures for Strong Light ^Å “Matter Interactions. ACS Photonics, 2020, 7, 2610-2617.	3.2	33
22	Real-space nanoimaging of THz polaritons in the topological insulator Bi ₂ Se ₃ . Nature Communications, 2022, 13, 1374.	5.8	33
23	Terahertz Nanoimaging and Nanospectroscopy of Chalcogenide Phase-Change Materials. ACS Photonics, 2020, 7, 3499-3506.	3.2	29
24	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
25	Enhanced Light ^Å “Matter Interaction in ¹⁰ B Monoisotopic Boron Nitride Infrared Nanoresonators. Advanced Optical Materials, 2021, 9, 2001958.	3.6	24
26	Multi-wavelength superlensing with layered phonon-resonant dielectrics. Optics Express, 2012, 20, 11787.	1.7	19
27	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
28	Understanding the conductive channel evolution in Na:WO ₃ -based planar devices. Nanoscale, 2015, 7, 6023-6030.	2.8	15
29	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
30	Electrically controlled multifrequency ferroelectric cloak. Optics Express, 2010, 18, 12646.	1.7	8
31	Canalization acoustic phonon polaritons in metal-MoO ₃ -metal sandwiched structures for nano-light guiding and manipulation. Journal of Optics (United Kingdom), 2022, 24, 024006.	1.0	7
32	Near-field mapping of complex-valued wavevectors of in-plane hyperbolic phonon polaritons in <i>h</i> -MoO ₃ . Applied Physics Letters, 2022, 120, .	1.5	4
33	Infrared hyperbolic metasurface based on nanostructured van der Waals materials. , 2019, , .		1