

Siyuan Dai

List of Publications by Year in descending order

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docs citations

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1829
citing authors

#	ARTICLE	IF	CITATIONS
1	Hyperbolic phonon polaritons with positive and negative phase velocities in suspended $\sqrt{2}$ -MoO ₃ . Applied Physics Letters, 2022, 120, .	3.3	15
2	Altering the Reflection Phase for Nano-Polaritons: A Case Study of Hyperbolic Surface Polaritons in Hexagonal Boron Nitride. Advanced Optical Materials, 2022, 10, .	7.3	6
3	Nanoplasmonic Sandwich Immunoassay for Tumor-Derived Exosome Detection and Exosomal PD-L1 Profiling. ACS Sensors, 2021, 6, 3308-3319.	7.8	35
4	Machine-Learning-Assisted Microfluidic Nanoplasmonic Digital Immunoassay for Cytokine Storm Profiling in COVID-19 Patients. ACS Nano, 2021, 15, 18023-18036.	14.6	33
5	A perspective of twisted photonic structures. Applied Physics Letters, 2021, 119, .	3.3	23
6	Phonon Polaritons and Hyperbolic Response in van der Waals Materials. Advanced Optical Materials, 2020, 8, 1901393.	7.3	87
7	Configurable phonon polaritons in twisted $\sqrt{2}$ -MoO ₃ . Nature Materials, 2020, 19, 1307-1311.	27.5	180
8	Phonon Polaritons in Monolayers of Hexagonal Boron Nitride. Advanced Materials, 2019, 31, e1806603.	21.0	73
9	Phase-Change Hyperbolic Heterostructures for Nanopolaritonics: A Case Study of hBN/VO ₂ . Advanced Materials, 2019, 31, e1900251.	21.0	43
10	Hyperbolic Phonon Polaritons in Suspended Hexagonal Boron Nitride. Nano Letters, 2019, 19, 1009-1014.	9.1	64
11	Quantum Control of Graphene Plasmon Excitation and Propagation at Heaviside Potential Steps. Nano Letters, 2018, 18, 1373-1378.	9.1	10
12	Large Photothermal Effect in Sub-40 nm hBN Nanostructures Patterned Via High-Resolution Ion Beam. Small, 2018, 14, 1800072.	10.0	12
13	Manipulation and Steering of Hyperbolic Surface Polaritons in Hexagonal Boron Nitride. Advanced Materials, 2018, 30, e1706358.	21.0	63
14	Ultralow-loss polaritons in isotopically pure boron nitride. Nature Materials, 2018, 17, 134-139.	27.5	291
15	Photothermal Effect: Large Photothermal Effect in Sub-40 nm hBN Nanostructures Patterned Via High-Resolution Ion Beam (Small 22/2018). Small, 2018, 14, 1870101.	10.0	1
16	Internal Nanostructure Diagnosis with Hyperbolic Phonon Polaritons in Hexagonal Boron Nitride. Nano Letters, 2018, 18, 5205-5210.	9.1	29
17	Faraday Rotation Due to Surface States in the Topological Insulator (Bi ₂ Sb) ₂ Te ₃ . Nano Letters, 2017, 17, 980-984.	9.1	21
18	Mechanical Detection and Imaging of Hyperbolic Phonon Polaritons in Hexagonal Boron Nitride. ACS Nano, 2017, 11, 8741-8746.	14.6	48

#	ARTICLE	IF	CITATIONS
19	Intrinsic Plasmon-Phonon Interactions in Highly Doped Graphene: A Near-Field Imaging Study. Nano Letters, 2017, 17, 5908-5913.	9.1	42
20	Imaging the Localized Plasmon Resonance Modes in Graphene Nanoribbons. Nano Letters, 2017, 17, 5423-5428.	9.1	51
21	Efficiency of Launching Highly Confined Polaritons by Infrared Light Incident on a Hyperbolic Material. Nano Letters, 2017, 17, 5285-5290.	9.1	79
22	Imaging of Anomalous Internal Reflections of Hyperbolic Phonon-Polaritons in Hexagonal Boron Nitride. Nano Letters, 2016, 16, 3858-3865.	9.1	106
23	Phase transition in bulk single crystals and thin films of VO_2 by nanoscale infrared spectroscopy and imaging. Physical Review B, 2015, 91, .	3.2	88
24	Symmetry breaking and geometric confinement in VO_2 : Results from a three-dimensional infrared nano-imaging. Applied Physics Letters, 2014, 104, 121905.	3.3	36