

Zhe Fei

List of Publications by Year in descending order

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44
papers

6,540
citations

185998

28
h-index

253896

43
g-index

44
all docs

44
docs citations

44
times ranked

6253
citing authors

#	ARTICLE	IF	CITATIONS
1	Gate-tuning of graphene plasmons revealed by infrared nano-imaging. <i>Nature</i> , 2012, 487, 82-85.	13.7	1,780
2	Tunable Phonon Polaritons in Atomically Thin van der Waals Crystals of Boron Nitride. <i>Science</i> , 2014, 343, 1125-1129.	6.0	957
3	Graphene on hexagonal boron nitride as a tunable hyperbolic metamaterial. <i>Nature Nanotechnology</i> , 2015, 10, 682-686.	15.6	526
4	Infrared Nanoscopy of Dirac Plasmons at the Graphene/SiO ₂ Interface. <i>Nano Letters</i> , 2011, 11, 4701-4705.	4.5	500
5	Subdiffractive focusing and guiding of polaritonic rays in a natural hyperbolic material. <i>Nature Communications</i> , 2015, 6, 6963.	5.8	340
6	Ultrafast optical switching of infrared plasmon polaritons in high-mobility graphene. <i>Nature Photonics</i> , 2016, 10, 244-247.	15.6	312
7	Electronic and plasmonic phenomena at graphene grain boundaries. <i>Nature Nanotechnology</i> , 2013, 8, 821-825.	15.6	226
8	Imaging exciton-polariton transport in MoSe ₂ waveguides. <i>Nature Photonics</i> , 2017, 11, 356-360.	15.6	182
9	Edge and Surface Plasmons in Graphene Nanoribbons. <i>Nano Letters</i> , 2015, 15, 8271-8276.	4.5	162
10	Ultrafast and Nanoscale Plasmonic Phenomena in Exfoliated Graphene Revealed by Infrared Pump-Probe Nanoscopy. <i>Nano Letters</i> , 2014, 14, 894-900.	4.5	158
11	Plasmons in graphene moiré superlattices. <i>Nature Materials</i> , 2015, 14, 1217-1222.	13.3	141
12	Anisotropic Electronic State via Spontaneous Phase Separation in Strained Vanadium Dioxide Films. <i>Physical Review Letters</i> , 2013, 111, 096602.	2.9	122
13	Ultrafast Dynamics of Surface Plasmons in InAs by Time-Resolved Infrared Nanospectroscopy. <i>Nano Letters</i> , 2014, 14, 4529-4534.	4.5	92
14	Phase transition in bulk single crystals and thin films of V_2O_5 by nanoscale infrared spectroscopy and imaging. <i>Physical Review B</i> , 2015, 91, .	1.1	88
15	Nano-optical imaging of WS ₂ waveguide modes revealing light-exciton interactions. <i>Physical Review B</i> , 2016, 94, .	1.1	82
16	Near-field spectroscopy of silicon dioxide thin films. <i>Physical Review B</i> , 2012, 85, .	1.1	80
17	Efficiency of Launching Highly Confined Polaritons by Infrared Light Incident on a Hyperbolic Material. <i>Nano Letters</i> , 2017, 17, 5285-5290.	4.5	79
18	Terahertz Nanoimaging of Graphene. <i>ACS Photonics</i> , 2018, 5, 2645-2651.	3.2	78

#	ARTICLE	IF	CITATIONS
19	Tunneling Plasmonics in Bilayer Graphene. Nano Letters, 2015, 15, 4973-4978.	4.5	64
20	Photoinduced Phase Transitions by Time-Resolved Far-Infrared Spectroscopy in V_2O_3 . Physical Review Letters, 2011, 107, 066403.	2.9	53
21	Recent Progress on Exciton Polaritons in Layered Transition-Metal Dichalcogenides. Advanced Optical Materials, 2020, 8, 1901003.	3.6	52
22	Imaging the Localized Plasmon Resonance Modes in Graphene Nanoribbons. Nano Letters, 2017, 17, 5423-5428.	4.5	51
23	Real-Space Imaging of the Tailored Plasmons in Twisted Bilayer Graphene. Physical Review Letters, 2017, 119, 247402.	2.9	48
24	Ultraconfined Plasmonic Hotspots Inside Graphene Nanobubbles. Nano Letters, 2016, 16, 7842-7848.	4.5	40
25	Symmetry breaking and geometric confinement in VO ₂ : Results from a three-dimensional infrared nano-imaging. Applied Physics Letters, 2014, 104, 121905.	1.5	36
26	Infrared nanospectroscopy and imaging of collective superfluid excitations in anisotropic superconductors. Physical Review B, 2014, 90, .	1.1	31
27	Tunable Plasmonic Reflection by Bound 1D Electron States in a 2D Dirac Metal. Physical Review Letters, 2016, 117, 086801.	2.9	31
28	Imaging propagative exciton polaritons in atomically thin WSe_2 waveguides. Physical Review B, 2019, 100, .	1.1	31
29	Tuning and Persistent Switching of Graphene Plasmons on a Ferroelectric Substrate. Nano Letters, 2015, 15, 4859-4864.	4.5	29
30	High-energy optical conductivity of graphene determined by reflection contrast spectroscopy. Physical Review B, 2008, 78, .	1.1	26
31	Near-field spectroscopic investigation of dual-band heavy fermion metamaterials. Nature Communications, 2017, 8, 2262.	5.8	24
32	Tailored Plasmons in Pentacene/Graphene Heterostructures with Interlayer Electron Transfer. Nano Letters, 2019, 19, 6058-6064.	4.5	19
33	Nanoplasmonic Phenomena at Electronic Boundaries in Graphene. ACS Photonics, 2017, 4, 2971-2977.	3.2	18
34	Designing graphene absorption in a multispectral plasmon-enhanced infrared detector. Optics Express, 2017, 25, 12400.	1.7	18
35	Tip- and Plasmon-Enhanced Infrared Nanoscopy for Ultrasensitive Molecular Characterizations. Physical Review Applied, 2020, 13, .	1.5	16
36	Terahertz Nano-Imaging of Electronic Strip Heterogeneity in a Dirac Semimetal. ACS Photonics, 2021, 8, 1873-1880.	3.2	16

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37	Imaging Anisotropic Waveguide Exciton Polaritons in Tin Sulfide. Nano Letters, 2022, 22, 1497-1503.	4.5	11
38	Nonequilibrium phonon tuning and mapping in few-layer graphene with infrared nanoscopy. Physical Review B, 2021, 103, .	1.1	7
39	Electrically detecting infrared light. Nature Materials, 2018, 17, 950-951.	13.3	5
40	Thermodynamically Driven Formation of Intercalated Cu Carpets from Supported Cu Pyramids on MoS ₂ . Journal of Physical Chemistry Letters, 2022, 13, 6651-6656.	2.1	5
41	High-field electromagnetic radiation converts carbon nanotubes to nanoribbons embedded with carbon nanocrystals. Journal of Applied Physics, 2020, 128, 024305.	1.1	2
42	Quantitative Surface Plasmon Interferometry via Upconversion Photoluminescence Mapping. Research, 2019, 2019, 8304824.	2.8	2
43	Infrared Pump-Probe Spectroscopy of Plasmons in Graphene and Semiconductors. Microscopy and Microanalysis, 2015, 21, 1415-1416.	0.2	1
44	Hyperbolic phonon polaritons in hexagonal boron nitride (Conference Presentation). , 2016, , .		0