

Zhe Fei

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

41
papers

5,049
citations

27
h-index

44
g-index

44
ext. papers

5,872
ext. citations

12.1
avg, IF

4.94
L-index

#	Paper	IF	Citations
41	Terahertz Nano-Imaging of Electronic Strip Heterogeneity in a Dirac Semimetal. <i>ACS Photonics</i> , 2021 , 8, 1873-1880	6.3	3
40	Nonequilibrium phonon tuning and mapping in few-layer graphene with infrared nanoscopy. <i>Physical Review B</i> , 2021 , 103,	3.3	2
39	Tip- and Plasmon-Enhanced Infrared Nanoscopy for Ultrasensitive Molecular Characterizations. <i>Physical Review Applied</i> , 2020 , 13,	4.3	11
38	High-field electromagnetic radiation converts carbon nanotubes to nanoribbons embedded with carbon nanocrystals. <i>Journal of Applied Physics</i> , 2020 , 128, 024305	2.5	0
37	Recent Progress on Exciton Polaritons in Layered Transition-Metal Dichalcogenides. <i>Advanced Optical Materials</i> , 2020 , 8, 1901003	8.1	20
36	Imaging propagative exciton polaritons in atomically thin WSe2 waveguides. <i>Physical Review B</i> , 2019 , 100,	3.3	9
35	Tailored Plasmons in Pentacene/Graphene Heterostructures with Interlayer Electron Transfer. <i>Nano Letters</i> , 2019 , 19, 6058-6064	11.5	9
34	Quantitative Surface Plasmon Interferometry via Upconversion Photoluminescence Mapping. <i>Research</i> , 2019 , 2019, 8304824	7.8	2
33	Terahertz Nanoimaging of Graphene. <i>ACS Photonics</i> , 2018 , 5, 2645-2651	6.3	41
32	Electrically detecting infrared light. <i>Nature Materials</i> , 2018 , 17, 950-951	27	1
31	Imaging exciton polariton transport in MoSe2 waveguides. <i>Nature Photonics</i> , 2017 , 11, 356-360	33.9	115
30	Imaging the Localized Plasmon Resonance Modes in Graphene Nanoribbons. <i>Nano Letters</i> , 2017 , 17, 5423-5428	11.5	33
29	Efficiency of Launching Highly Confined Polaritons by Infrared Light Incident on a Hyperbolic Material. <i>Nano Letters</i> , 2017 , 17, 5285-5290	11.5	57
28	Real-Space Imaging of the Tailored Plasmons in Twisted Bilayer Graphene. <i>Physical Review Letters</i> , 2017 , 119, 247402	7.4	35
27	Nanoplasmonic Phenomena at Electronic Boundaries in Graphene. <i>ACS Photonics</i> , 2017 , 4, 2971-2977	6.3	16
26	Near-field spectroscopic investigation of dual-band heavy fermion metamaterials. <i>Nature Communications</i> , 2017 , 8, 2262	17.4	21
25	Designing graphene absorption in a multispectral plasmon-enhanced infrared detector. <i>Optics Express</i> , 2017 , 25, 12400-12408	3.3	13

24	Tunable Plasmonic Reflection by Bound 1D Electron States in a 2D Dirac Metal. <i>Physical Review Letters</i> , 2016 , 117, 086801	7.4	27
23	Ultraconfined Plasmonic Hotspots Inside Graphene Nanobubbles. <i>Nano Letters</i> , 2016 , 16, 7842-7848	11.5	28
22	Ultrafast optical switching of infrared plasmon polaritons in high-mobility graphene. <i>Nature Photonics</i> , 2016 , 10, 244-247	33.9	252
21	Nano-optical imaging of WSe2 waveguide modes revealing light-exciton interactions. <i>Physical Review B</i> , 2016 , 94,	3.3	58
20	Tunneling Plasmonics in Bilayer Graphene. <i>Nano Letters</i> , 2015 , 15, 4973-8	11.5	50
19	Tuning and Persistent Switching of Graphene Plasmons on a Ferroelectric Substrate. <i>Nano Letters</i> , 2015 , 15, 4859-64	11.5	27
18	Graphene on hexagonal boron nitride as a tunable hyperbolic metamaterial. <i>Nature Nanotechnology</i> , 2015 , 10, 682-6	28.7	390
17	Subdiffractional focusing and guiding of polaritonic rays in a natural hyperbolic material. <i>Nature Communications</i> , 2015 , 6, 6963	17.4	255
16	Plasmons in graphene moiré superlattices. <i>Nature Materials</i> , 2015 , 14, 1217-22	27	108
15	Edge and Surface Plasmons in Graphene Nanoribbons. <i>Nano Letters</i> , 2015 , 15, 8271-6	11.5	128
14	Phase transition in bulk single crystals and thin films of VO2 by nanoscale infrared spectroscopy and imaging. <i>Physical Review B</i> , 2015 , 91,	3.3	73
13	Infrared Pump-Probe Spectroscopy of Plasmons in Graphene and Semiconductors. <i>Microscopy and Microanalysis</i> , 2015 , 21, 1415-1416	0.5	0
12	Ultrafast and nanoscale plasmonic phenomena in exfoliated graphene revealed by infrared pump-probe nanoscopy. <i>Nano Letters</i> , 2014 , 14, 894-900	11.5	121
11	Ultrafast dynamics of surface plasmons in InAs by time-resolved infrared nanospectroscopy. <i>Nano Letters</i> , 2014 , 14, 4529-34	11.5	72
10	Tunable phonon polaritons in atomically thin van der Waals crystals of boron nitride. <i>Science</i> , 2014 , 343, 1125-9	33.3	695
9	Infrared nanospectroscopy and imaging of collective superfluid excitations in anisotropic superconductors. <i>Physical Review B</i> , 2014 , 90,	3.3	28
8	Symmetry breaking and geometric confinement in VO2: Results from a three-dimensional infrared nano-imaging. <i>Applied Physics Letters</i> , 2014 , 104, 121905	3.4	31
7	Anisotropic electronic state via spontaneous phase separation in strained vanadium dioxide films. <i>Physical Review Letters</i> , 2013 , 111, 096602	7.4	110

6	Electronic and plasmonic phenomena at graphene grain boundaries. <i>Nature Nanotechnology</i> , 2013 , 8, 821-5	28.7	191
5	Gate-tuning of graphene plasmons revealed by infrared nano-imaging. <i>Nature</i> , 2012 , 487, 82-5	50.4	1451
4	Near-field spectroscopy of silicon dioxide thin films. <i>Physical Review B</i> , 2012 , 85,	3.3	68
3	Infrared nanoscopy of dirac plasmons at the graphene-SiO ₂ interface. <i>Nano Letters</i> , 2011 , 11, 4701-5	11.5	431
2	Photoinduced phase transitions by time-resolved far-infrared spectroscopy in V ₂ O ₃ . <i>Physical Review Letters</i> , 2011 , 107, 066403	7.4	39
1	High-energy optical conductivity of graphene determined by reflection contrast spectroscopy. <i>Physical Review B</i> , 2008 , 78,	3.3	25