

# Zhe Fei

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/2398733/zhe-fei-publications-by-citations.pdf>

**Version:** 2024-04-26

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	Gate-tuning of graphene plasmons revealed by infrared nano-imaging. <i>Nature</i> , <b>2012</b> , 487, 82-5	50.4	1451
40	Tunable phonon polaritons in atomically thin van der Waals crystals of boron nitride. <i>Science</i> , <b>2014</b> , 343, 1125-9	33.3	695
39	Infrared nanoscopy of dirac plasmons at the graphene-SiO <sub>2</sub> interface. <i>Nano Letters</i> , <b>2011</b> , 11, 4701-5	11.5	431
38	Graphene on hexagonal boron nitride as a tunable hyperbolic metamaterial. <i>Nature Nanotechnology</i> , <b>2015</b> , 10, 682-6	28.7	390
37	Subdiffractional focusing and guiding of polaritonic rays in a natural hyperbolic material. <i>Nature Communications</i> , <b>2015</b> , 6, 6963	17.4	255
36	Ultrafast optical switching of infrared plasmon polaritons in high-mobility graphene. <i>Nature Photonics</i> , <b>2016</b> , 10, 244-247	33.9	252
35	Electronic and plasmonic phenomena at graphene grain boundaries. <i>Nature Nanotechnology</i> , <b>2013</b> , 8, 821-5	28.7	191
34	Edge and Surface Plasmons in Graphene Nanoribbons. <i>Nano Letters</i> , <b>2015</b> , 15, 8271-6	11.5	128
33	Ultrafast and nanoscale plasmonic phenomena in exfoliated graphene revealed by infrared pump-probe nanoscopy. <i>Nano Letters</i> , <b>2014</b> , 14, 894-900	11.5	121
32	Imaging exciton-polariton transport in MoSe <sub>2</sub> waveguides. <i>Nature Photonics</i> , <b>2017</b> , 11, 356-360	33.9	115
31	Anisotropic electronic state via spontaneous phase separation in strained vanadium dioxide films. <i>Physical Review Letters</i> , <b>2013</b> , 111, 096602	7.4	110
30	Plasmons in graphene moiré superlattices. <i>Nature Materials</i> , <b>2015</b> , 14, 1217-22	27	108
29	Phase transition in bulk single crystals and thin films of VO <sub>2</sub> by nanoscale infrared spectroscopy and imaging. <i>Physical Review B</i> , <b>2015</b> , 91,	3.3	73
28	Ultrafast dynamics of surface plasmons in InAs by time-resolved infrared nanospectroscopy. <i>Nano Letters</i> , <b>2014</b> , 14, 4529-34	11.5	72
27	Near-field spectroscopy of silicon dioxide thin films. <i>Physical Review B</i> , <b>2012</b> , 85,	3.3	68
26	Nano-optical imaging of WSe <sub>2</sub> waveguide modes revealing light-exciton interactions. <i>Physical Review B</i> , <b>2016</b> , 94,	3.3	58
25	Efficiency of Launching Highly Confined Polaritons by Infrared Light Incident on a Hyperbolic Material. <i>Nano Letters</i> , <b>2017</b> , 17, 5285-5290	11.5	57

24	Tunneling Plasmonics in Bilayer Graphene. <i>Nano Letters</i> , <b>2015</b> , 15, 4973-8	11.5	50
23	Terahertz Nanoimaging of Graphene. <i>ACS Photonics</i> , <b>2018</b> , 5, 2645-2651	6.3	41
22	Photoinduced phase transitions by time-resolved far-infrared spectroscopy in V2O3. <i>Physical Review Letters</i> , <b>2011</b> , 107, 066403	7.4	39
21	Real-Space Imaging of the Tailored Plasmons in Twisted Bilayer Graphene. <i>Physical Review Letters</i> , <b>2017</b> , 119, 247402	7.4	35
20	Imaging the Localized Plasmon Resonance Modes in Graphene Nanoribbons. <i>Nano Letters</i> , <b>2017</b> , 17, 5423-5428	11.5	33
19	Symmetry breaking and geometric confinement in VO2: Results from a three-dimensional infrared nano-imaging. <i>Applied Physics Letters</i> , <b>2014</b> , 104, 121905	3.4	31
18	Ultraconfined Plasmonic Hotspots Inside Graphene Nanobubbles. <i>Nano Letters</i> , <b>2016</b> , 16, 7842-7848	11.5	28
17	Infrared nanospectroscopy and imaging of collective superfluid excitations in anisotropic superconductors. <i>Physical Review B</i> , <b>2014</b> , 90,	3.3	28
16	Tuning and Persistent Switching of Graphene Plasmons on a Ferroelectric Substrate. <i>Nano Letters</i> , <b>2015</b> , 15, 4859-64	11.5	27
15	Tunable Plasmonic Reflection by Bound 1D Electron States in a 2D Dirac Metal. <i>Physical Review Letters</i> , <b>2016</b> , 117, 086801	7.4	27
14	High-energy optical conductivity of graphene determined by reflection contrast spectroscopy. <i>Physical Review B</i> , <b>2008</b> , 78,	3.3	25
13	Near-field spectroscopic investigation of dual-band heavy fermion metamaterials. <i>Nature Communications</i> , <b>2017</b> , 8, 2262	17.4	21
12	Recent Progress on Exciton Polaritons in Layered Transition-Metal Dichalcogenides. <i>Advanced Optical Materials</i> , <b>2020</b> , 8, 1901003	8.1	20
11	Nanoplasmonic Phenomena at Electronic Boundaries in Graphene. <i>ACS Photonics</i> , <b>2017</b> , 4, 2971-2977	6.3	16
10	Designing graphene absorption in a multispectral plasmon-enhanced infrared detector. <i>Optics Express</i> , <b>2017</b> , 25, 12400-12408	3.3	13
9	Tip- and Plasmon-Enhanced Infrared Nanoscopy for Ultrasensitive Molecular Characterizations. <i>Physical Review Applied</i> , <b>2020</b> , 13,	4.3	11
8	Imaging propagative exciton polaritons in atomically thin WSe2 waveguides. <i>Physical Review B</i> , <b>2019</b> , 100,	3.3	9
7	Tailored Plasmons in Pentacene/Graphene Heterostructures with Interlayer Electron Transfer. <i>Nano Letters</i> , <b>2019</b> , 19, 6058-6064	11.5	9

6	Terahertz Nano-Imaging of Electronic Strip Heterogeneity in a Dirac Semimetal. <i>ACS Photonics</i> , <b>2021</b> , 8, 1873-1880	6.3	3
5	Quantitative Surface Plasmon Interferometry via Upconversion Photoluminescence Mapping. <i>Research</i> , <b>2019</b> , 2019, 8304824	7.8	2
4	Nonequilibrium phonon tuning and mapping in few-layer graphene with infrared nanoscopy. <i>Physical Review B</i> , <b>2021</b> , 103,	3.3	2
3	Electrically detecting infrared light. <i>Nature Materials</i> , <b>2018</b> , 17, 950-951	27	1
2	Infrared Pump-Probe Spectroscopy of Plasmons in Graphene and Semiconductors. <i>Microscopy and Microanalysis</i> , <b>2015</b> , 21, 1415-1416	0.5	0
1	High-field electromagnetic radiation converts carbon nanotubes to nanoribbons embedded with carbon nanocrystals. <i>Journal of Applied Physics</i> , <b>2020</b> , 128, 024305	2.5	0