Fritz Keilmann

List of Publications by Year in descending order

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201575 434063 8,241 33 27 31 h-index citations g-index papers 33 33 33 7214 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Infrared-spectroscopic, dynamic near-field microscopy of living cells and nanoparticles in water. Scientific Reports, 2021, 11, 21860.	1.6	24
2	Conformation in Ultrathin Polymer Brush Coatings Resolved by Infrared Nanoscopy. Analytical Chemistry, 2020, 92, 4716-4720.	3.2	16
3	Near-field infrared nanospectroscopy of surface phonon-polariton resonances. Physical Review Research, 2020, 2, .	1.3	24
4	Anisotropic Strain-Induced Soliton Movement Changes Stacking Order and Band Structure of Graphene Multilayers: Implications for Charge Transport. ACS Applied Nano Materials, 2019, 2, 6067-6075.	2.4	24
5	All-Electronic THz Nanoscopy. , 2018, , .		O
6	Phase-resolved terahertz self-detection near-field microscopy. Optics Express, 2018, 26, 18423.	1.7	70
7	All-electronic terahertz nanoscopy. Optica, 2018, 5, 159.	4.8	70
8	Efficiency of Launching Highly Confined Polaritons by Infrared Light Incident on a Hyperbolic Material. Nano Letters, 2017, 17, 5285-5290.	4. 5	79
9	Artifact free time resolved near-field spectroscopy. Optics Express, 2017, 25, 28589.	1.7	30
10	Hyperbolic phonon polaritons in hexagonal boron nitride (Conference Presentation). , 2016, , .		0
11	Ultrafast optical switching of infrared plasmon polaritons in high-mobility graphene. Nature Photonics, 2016, 10, 244-247.	15.6	312
12	Graphene-Based Platform for Infrared Near-Field Nanospectroscopy of Water and Biological Materials in an Aqueous Environment. ACS Nano, 2015, 9, 7968-7975.	7.3	75
13	Graphene on hexagonal boron nitride as a tunable hyperbolic metamaterial. Nature Nanotechnology, 2015, 10, 682-686.	15.6	526
14	Subdiffractional focusing and guiding of polaritonic rays in a natural hyperbolic material. Nature Communications, 2015, 6, 6963.	5 . 8	340
15	Plasmons in graphene moiré superlattices. Nature Materials, 2015, 14, 1217-1222.	13.3	141
16	Nanoscale infrared spectroscopy as a non-destructive probe of extraterrestrial samples. Nature Communications, 2014, 5, 5445.	5.8	52
17	Ultrafast and Nanoscale Plasmonic Phenomena in Exfoliated Graphene Revealed by Infrared Pump–Probe Nanoscopy. Nano Letters, 2014, 14, 894-900.	4.5	158
18	Ultrafast Dynamics of Surface Plasmons in InAs by Time-Resolved Infrared Nanospectroscopy. Nano Letters, 2014, 14, 4529-4534.	4.5	92

#	Article	IF	CITATIONS
19	Tunable Phonon Polaritons in Atomically Thin van der Waals Crystals of Boron Nitride. Science, 2014, 343, 1125-1129.	6.0	957
20	Nano-FTIR Absorption Spectroscopy of Molecular Fingerprints at 20Ânm Spatial Resolution. Nano Letters, 2012, 12, 3973-3978.	4.5	477
21	Gate-tuning of graphene plasmons revealed by infrared nano-imaging. Nature, 2012, 487, 82-85.	13.7	1,780
22	Mid-infrared Frequency Comb Spanning an Octave Based on an Er Fiber Laser and Difference-Frequency Generation. Journal of Infrared, Millimeter, and Terahertz Waves, 2012, 33, 479-484.	1.2	88
23	Infrared Nanoscopy of Dirac Plasmons at the Graphene–SiO ₂ Interface. Nano Letters, 2011, 11, 4701-4705.	4.5	500
24	Broadband-infrared assessment of phonon resonance in scattering-type near-field microscopy. Physical Review B, 2011, 83, .	1.1	117
25	Mid-infrared near-field spectroscopy. Optics Express, 2009, 17, 21794.	1.7	93
26	Terahertz Near-Field Nanoscopy of Mobile Carriers in Single Semiconductor Nanodevices. Nano Letters, 2008, 8, 3766-3770.	4.5	483
27	Spectroscopic THz near-field microscope. Optics Express, 2008, 16, 3430.	1.7	126
28	Antenna-mediated back-scattering efficiency in infrared near-field microscopy. Optics Express, 2008, 16, 11203.	1.7	42
29	Nanoscale-resolved subsurface imaging by scattering-type near-field optical microscopy. Optics Express, 2005, 13, 8893.	1.7	145
30	Infrared conductivity mapping for nanoelectronics. Applied Physics Letters, 2000, 77, 3980-3982.	1.5	83
31	Complex Optical Constants on a Subwavelength Scale. Physical Review Letters, 2000, 85, 3029-3032.	2.9	396
32	Near-field probing of vibrational absorption for chemical microscopy. Nature, 1999, 399, 134-137.	13.7	850
33	Extreme sub-wavelength resolution with a scanning radio-frequency transmission microscope. Optics Communications, 1996, 129, 15-18.	1.0	71