Junghoon Jahng

List of Publications by Year
in descending order

30 papers	903 citations	623188 14 h-index	580395 25 g-index
30 all docs	30 docs citations	30 times ranked	898 citing authors

#	Article	IF	Citations
1	Nanoscale chemical imaging by photoinduced force microscopy. Science Advances, 2016, 2, e1501571.	4.7	228
2	Linear and Nonlinear Optical Spectroscopy at the Nanoscale with Photoinduced Force Microscopy. Accounts of Chemical Research, 2015, 48, 2671-2679.	7.6	100
3	Gradient and scattering forces in photoinduced force microscopy. Physical Review B, 2014, 90, .	1.1	96
4	Ultrafast pump-probe force microscopy with nanoscale resolution. Applied Physics Letters, 2015, 106, .	1.5	72
5	Tip-Enhanced Thermal Expansion Force for Nanoscale Chemical Imaging and Spectroscopy in Photoinduced Force Microscopy. Analytical Chemistry, 2018, 90, 11054-11061.	3.2	61
6	Quantitative atomic force measurement with a quartz tuning fork. Applied Physics Letters, 2007, 91, 023117.	1.5	48
7	Photoinduced force microscopy: A technique for hyperspectral nanochemical mapping. Japanese Journal of Applied Physics, 2017, 56, 08LA04.	0.8	37
8	Quantitative analysis of sideband coupling in photoinduced force microscopy. Physical Review B, 2016, 94, .	1.1	32
9	Nanoscale spectroscopic origins of photoinduced tipâ€“sample force in the midinfrared. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 26359-26366.	3.3	29
10	Active Q control in tuning-fork-based atomic force microscopy. Applied Physics Letters, 2007, 91, 023103.	1.5	26
11	Eigenmodes of a quartz tuning fork and their application to photoinduced force microscopy. Physical Review B, 2017, 95, .	1.1	24
12	Photo-induced force microscopy (PiFM) â€“ principles and implementations. Chemical Society Reviews, 2022, 51, 4208-4222.	18.7	24
13	Visualizing surface plasmon polaritons by their gradient force. Optics Letters, 2015, 40, 5058.	1.7	22
14	Tip-Enhanced Infrared Imaging with Sub-10 nm Resolution and Hypersensitivity. Journal of Physical Chemistry Letters, 2020, 11, 1697-1701.	2.1	19
15	Substructure imaging of heterogeneous nanomaterials with enhanced refractive index contrast by using a functionalized tip in photoinduced force microscopy. Light: Science and Applications, 2018, 7, 73.	7.7	16
16	Enhancement of Photoresponse on Narrow-Bandgap Mott Insulator Î±-RuCl₃ via Intercalation. ACS Nano, 2021, 15, 18113-18124.	7.3	10
17	Active feedback cooling of massive electromechanical quartz resonators. Physical Review A, 2011, 84, .	1.0	9
18	Photo-induced force for spectroscopic imaging at the nanoscale. Proceedings of SPIE, 2016, , .	0.8	8

#	Article	IF	Citations
19	Fabrication and near-field visualization of a wafer-scale dense plasmonic nanostructured array. RSC Advances, 2018, 8, 6444-6451.	1.7	8
20	Photo-Induced Force Microscopy by Using Quartz Tuning-Fork Sensor. Sensors, 2019, 19, 1530.	2.1	7
21	Direct Chemical Imaging of Ligand-Functionalized Single Nanoparticles by Photoinduced Force Microscopy. Journal of Physical Chemistry Letters, 2020, 11, 5785-5791.	2.1	7
22	Monitoring Fast Thermal Dynamics at the Nanoscale through Frequency Domain Photoinduced Force Microscopy. Journal of Physical Chemistry C, 2021, 125, 7276-7286.	1.5	7
23	Electrical tuning of mechanical characteristics in qPlus sensor: Active Q and resonance frequency control. Journal of Applied Physics, 2016, 120, .	1.1	6
24	Evans blue dye-enhanced imaging of the brain microvessels using spectral focusing coherent anti-Stokes Raman scattering microscopy. PLoS ONE, 2017, 12, e0185519.	1.1	5
25	Dynamic photo-induced force microscopy. Materials Research Society Symposia Proceedings, 2015, 1754, 103-108.	0.1	1
26	Ultrafast pump-probe photo-induced force microscopy at nanoscale. , 2015, , .		1
27	General Active Quality Factor Control of Electromechanical Quartz Resonator. Materials Research Society Symposia Proceedings, 2009, 1232, 70401.	0.1	0
28	Nanofluidics through a 30-nm aperture nanopipette by applying electrostatic field based on the QTF-AFM system. , 2010, , .		0
29	Nanoscale spectroscopic imaging with photo-induced force microscopy. , 2015, , .		0
30	Linear and nonlinear hyperspectral imaging of nano- and bio- materials in photo-induced force microscopy. , 2018, , .		0