Kei Kobayashi

List of Publications by Year in descending order

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KELKOBAVASHI

#	Article	IF	CITATIONS
1	Nanomechanics of self-assembled surfactants revealed by frequency-modulation atomic force microscopy. Nanoscale, 2022, 14, 4626-4634.	2.8	1
2	Structured Water Molecules on Membrane Proteins Resolved by Atomic Force Microscopy. Nano Letters, 2022, 22, 2391-2397.	4.5	6
3	Morphological and functional characterizations of SnO ₂ electron extraction layer on transparent conductive oxides in lead-halide perovskite solar cells. Applied Physics Letters, 2022, 120, 191604.	1.5	1
4	Low-Background Tip-Enhanced Raman Spectroscopy Enabled by a Plasmon Thin-Film Waveguide Probe. Analytical Chemistry, 2021, 93, 7699-7706.	3.2	9
5	Surface charge density measurement of a single protein molecule with a controlled orientation by AFM. Biophysical Journal, 2021, 120, 2490-2497.	0.2	4
6	Molecular-Scale Solvation Structures of Ionic Liquids on a Heterogeneously Charged Surface. Journal of Physical Chemistry Letters, 2020, 11, 8094-8099.	2.1	5
7	Atomic-Scale Three-Dimensional Local Solvation Structures of Ionic Liquids. Journal of Physical Chemistry Letters, 2020, 11, 1343-1348.	2.1	21
8	Molecular-scale visualization and surface charge density measurement of Z-DNA in aqueous solution. Scientific Reports, 2019, 9, 6851.	1.6	17
9	Atomic-Level Viscosity Distribution in the Hydration Layer. Physical Review Letters, 2019, 122, 116001.	2.9	23
10	Investigation of Local Hydration Structures of Alkanethiol Self-Assembled Monolayers with Different Molecular Structures by FM-AFM. Langmuir, 2018, 34, 15189-15194.	1.6	11
11	Immunoactivity of self-assembled antibodies investigated by atomic force microscopy. RSC Advances, 2018, 8, 29378-29384.	1.7	10
12	Atomic-Scale 3D Local Hydration Structures Influenced by Water-Restricting Dimensions. Langmuir, 2018, 34, 9114-9121.	1.6	17
13	Visualization of Au Nanoparticles Buried in a Polymer Matrix by Scanning Thermal Noise Microscopy. Scientific Reports, 2017, 7, 42718.	1.6	19
14	Flexible DNA Path in the MCM Double Hexamer Loaded on DNA. Biochemistry, 2017, 56, 2435-2445.	1.2	9
15	Atomic-resolution three-dimensional hydration structures on a heterogeneously charged surface. Nature Communications, 2017, 8, 2111.	5.8	57
16	Surface Potential Measurements of Organic Thin-Film Transistors by Kelvin-Probe Force Microscopy. Journal of the Vacuum Society of Japan, 2017, 60, 392-396.	0.3	0
17	Interlayer Resistance and Edge-Specific Charging in Layered Molecular Crystals Revealed by Kelvin-Probe Force Microscopy. Journal of Physical Chemistry C, 2015, 119, 3006-3011.	1.5	20
18	Influence of Al-doped ZnO and Ga-doped ZnO substrates on third harmonic generation of gold nanoparticles. Physica E: Low-Dimensional Systems and Nanostructures, 2015, 71, 91-95.	1.3	9

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#	Article	IF	CITATIONS
19	Molecular-scale quantitative charge density measurement of biological molecule by frequency modulation atomic force microscopy in aqueous solutions. Nanotechnology, 2015, 26, 285103.	1.3	29
20	Molecular-scale investigations of structures and surface charge distribution of surfactant aggregates by three-dimensional force mapping. Journal of Chemical Physics, 2014, 140, 054704.	1.2	19
21	Photothermal excitation setup for a modified commercial atomic force microscope. Review of Scientific Instruments, 2014, 85, 023703.	0.6	19
22	Immunoactive two-dimensional self-assembly of monoclonal antibodies in aqueous solution revealed by atomic force microscopy. Nature Materials, 2014, 13, 264-270.	13.3	104
23	Visualization of hydration layers on muscovite mica in aqueous solution by frequency-modulation atomic force microscopy. Journal of Chemical Physics, 2013, 138, 184704.	1.2	107
24	Monotonic Damping in Nanoscopic Hydration Experiments. Physical Review Letters, 2013, 110, 066102.	2.9	37
25	Influence of grain boundary on electrical properties of organic crystalline grains investigated by dual-probe atomic force microscopy. Applied Physics Letters, 2013, 103, .	1.5	13
26	Reduction of frequency noise and frequency shift by phase shifting elements in frequency modulation atomic force microscopy. Review of Scientific Instruments, 2011, 82, 033702.	0.6	32
27	Atomic-Resolution Imaging of Graphite–Water Interface by Frequency Modulation Atomic Force Microscopy. Applied Physics Express, 2011, 4, 125102.	1.1	77
28	Electrospray induced ferroelectricity in poly(vinylidene fluoride) thin films. Journal of Materials Chemistry, 2010, 20, 8272.	6.7	20
29	Visualization of anisotropic conductance in polydiacetylene crystal by dual-probe frequency-modulation atomic force microscopy/Kelvin-probe force microscopy. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2010, 28, C4D24-C4D28.	0.6	7
30	Visualizing water molecule distribution by atomic force microscopy. Journal of Chemical Physics, 2010, 132, 194705.	1.2	153
31	Electrospray deposition producing ultra-thin polymer films with a regular surface structure. Soft Matter, 2009, 5, 593-598.	1.2	25
32	Molecular Resolution Imaging of Protein Molecules in Liquid Using Frequency Modulation Atomic Force Microscopy. Applied Physics Express, 2009, 2, 095007.	1.1	50
33	Improving sensitivity in electrostatic force detection utilizing cantilever with tailored resonance modes. Applied Physics Letters, 2007, 90, 053113.	1.5	7
34	Noncontact-mode scanning capacitance force microscopy towards quantitative two-dimensional carrier profiling on semiconductor devices. Applied Physics Letters, 2007, 90, 083101.	1.5	13
35	Model Supported Morphology Control of Electrospray Deposited Poly(vinylidene fluoride) Film. Macromolecular Symposia, 2007, 249-250, 322-329.	0.4	3
36	Increase in carrier mobility of organic ultrathin-film transistor with increasing molecular layers investigated by Kelvin probe force microscopy. Journal of Applied Physics, 2005, 97, 124503.	1.1	15

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37	Development of low noise cantilever deflection sensor for multienvironment frequency-modulation atomic force microscopy. Review of Scientific Instruments, 2005, 76, 053704.	0.6	325
38	Frequency-modulation atomic force microscopy at high cantilever resonance frequencies using the heterodyne optical beam deflection method. Review of Scientific Instruments, 2005, 76, 126110.	0.6	20
39	True molecular resolution in liquid by frequency-modulation atomic force microscopy. Applied Physics Letters, 2005, 86, 193108.	1.5	125
40	True-molecular resolution imaging by frequency modulation atomic force microscopy in various environments. Applied Physics Letters, 2005, 86, 034103.	1.5	56
41	True atomic resolution in liquid by frequency-modulation atomic force microscopy. Applied Physics Letters, 2005, 87, 034101.	1.5	316
42	Molecular-scale noncontact atomic force microscopy contrasts in topography and energy dissipation on c(4×2) superlattice structures of alkanethiol self-assembled monolayers. Journal of Applied Physics, 2004, 95, 1222-1226.	1.1	44
43	Dynamic force microscopy at high cantilever resonance frequencies using heterodyne optical beam deflection method. Applied Physics Letters, 2004, 85, 6287-6289.	1.5	13
44	Surface potential measurements by the dissipative force modulation method. Review of Scientific Instruments, 2004, 75, 4589-4594.	0.6	26
45	Orientation control of poly(vinylidenefluoride-trifluoroethylene) crystals and molecules using atomic force microscopy. Applied Physics Letters, 2003, 82, 4050-4052.	1.5	42
46	Effect of water adsorption on microscopic friction force on SrTiO3(001). Journal of Applied Physics, 2003, 93, 3223-3227.	1.1	39
47	Dopant profiling on semiconducting sample by scanning capacitance force microscopy. Applied Physics Letters, 2002, 81, 2629-2631.	1.5	71
48	Analog frequency modulation detector for dynamic force microscopy. Review of Scientific Instruments, 2001, 72, 4383-4387.	0.6	135
49	Structures and Electrical Properties of Self-Assembled Monolayers of Alkanethiol and Alkanedithiol. Molecular Crystals and Liquid Crystals, 1998, 316, 167-170.	0.3	0