

Wataru Mizutani

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	High-Resolution X-ray Photoelectron Spectra of Organosulfur Monolayers on Au(111): S(2p) Spectral Dependence on Molecular Species. <i>Langmuir</i> , 1999, 15, 6799-6806.	1.6	248
2	Evidence for Cleavage of Disulfides in the Self-Assembled Monolayer on Au(111). <i>Langmuir</i> , 1997, 13, 3261-3265.	1.6	150
3	Electrical Conduction of Conjugated Molecular SAMs Studied by Conductive Atomic Force Microscopy. <i>Journal of Physical Chemistry B</i> , 2002, 106, 5886-5892.	1.2	129
4	Structural Effects on Electrical Conduction of Conjugated Molecules Studied by Scanning Tunneling Microscopy. <i>Journal of Physical Chemistry B</i> , 2000, 104, 11680-11688.	1.2	120
5	Lateral Electrical Conduction in Organic Monolayer. <i>Journal of Physical Chemistry B</i> , 1999, 103, 1686-1690.	1.2	99
6	Voltage-dependent scanning tunneling microscopy images of liquid crystals on graphite. <i>Applied Physics Letters</i> , 1990, 56, 1974-1976.	1.5	87
7	High-resolution imaging of organic monolayers using noncontact AFM. <i>Applied Surface Science</i> , 2000, 157, 244-250.	3.1	70
8	Microphase domains of poly(styrene-block-ethylene/butylene-block-styrene) triblock copolymers studied by atomic force microscopy. <i>Polymer</i> , 1997, 38, 1779-1785.	1.8	66
9	Local modification of elastic properties of polystyrene-polyethyleneoxide blend surfaces. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 1995, 13, 1163.	1.6	47
10	Scanning tunneling spectroscopy study of adsorbed molecules. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1990, 8, 675-678.	0.9	46
11	Microstructure study of acrylic polymer-silica nanocomposite surface by scanning force microscopy. <i>Polymer</i> , 1997, 38, 177-182.	1.8	46
12	Graphitization Mechanism during the Carbon-Nanotube Formation Based on the In-Situ HRTEM Observation. <i>Journal of Physical Chemistry B</i> , 2002, 106, 1849-1852.	1.2	46
13	Adsorption Processes of Self-Assembled Monolayers Made from Terphenyl Thiols. <i>Langmuir</i> , 2001, 17, 7459-7463.	1.6	45
14	Local elasticity measurement on polymers using atomic force microscopy. <i>Thin Solid Films</i> , 1996, 273, 143-148.	0.8	43
15	Annealing Effect of Self-Assembled Monolayers Generated from Terphenyl Derivatized Thiols on Au(111). <i>Langmuir</i> , 2002, 18, 83-92.	1.6	43
16	Carbon-Nanotube Formation Mechanism Based on in Situ TEM Observations. <i>Journal of Physical Chemistry B</i> , 2002, 106, 13294-13298.	1.2	43
17	Observation of Langmuir-Blodgett Films by Scanning Tunneling Microscopy. <i>Japanese Journal of Applied Physics</i> , 1988, 27, 1803-1807.	0.8	42
18	Nanometer-scale patterning of self-assembled monolayer films on native silicon oxide. <i>Applied Physics Letters</i> , 1998, 73, 1976-1978.	1.5	41

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19	AFM Observation of Self-Assembled Monolayer Films on GaAs (110). Japanese Journal of Applied Physics, 1995, 34, 1381-1386.	0.8	40
20	Surface functionalization chemistries on highly sensitive silica-based sensor chips. Analyst, The, 2012, 137, 3520.	1.7	39
21	Making a Monolayer Hole in a Graphite Surface by Means of a Scanning Tunneling Microscope. Japanese Journal of Applied Physics, 1990, 29, L815-L817.	0.8	38
22	Magneto-optical response of nanoscaled cobalt dots array. Applied Physics Letters, 1996, 68, 3040-3042.	1.5	38
23	Molecular arrangement and electrical conduction of self-assembled monolayers made from terphenyl thiols. Surface Science, 2002, 514, 187-193.	0.8	37
24	A simple fabrication method of nanogap electrodes for top-contacted geometry: application to porphyrin nanorods and a DNA network. Nanotechnology, 2004, 15, 1639-1644.	1.3	36
25	Atomic Force Microscopy of Single-Walled Carbon Nanotubes Using Carbon Nanotube Tip. Japanese Journal of Applied Physics, 2000, 39, 3707-3710.	0.8	35
26	Fabrication of Steady Junctions Consisting of $\hat{I}\pm, \hat{I}\%$ -Bis(thioacetate) Oligo(p-phenylene vinylene)s in Nanogap Electrodes. Journal of the American Chemical Society, 2006, 128, 13720-13726.	6.6	34
27	Tunneling through a deformed potential. Ultramicroscopy, 1992, 42-44, 236-241.	0.8	32
28	Nanoscale Reversible Molecular Extraction from a Self-Assembled Monolayer on Gold(111) by a Scanning Tunneling Microscope. Langmuir, 1998, 14, 7197-7202.	1.6	32
29	Measuring Molecular Conductivities Using Single Molecular-Sized Gap Junctions Fabricated without Using Electron Beam Lithography. Japanese Journal of Applied Physics, 2005, 44, L472-L474.	0.8	30
30	Magnetization process of a nanometer-scale cobalt dots array formed on a reconstructed Au(111) surface. Journal of Magnetism and Magnetic Materials, 1997, 165, 38-41.	1.0	28
31	Insertion process and electrical conduction of conjugated molecules inn-alkanethiol self-assembled monolayers on Au(111). Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2000, 18, 1437-1442.	0.9	26
32	Surface morphology study of poly(ethylene oxide) crystals by scanning force microscopy. Polymer, 1996, 37, 183-185.	1.8	25
33	Carbon Nanotube Tip for Scanning Tunneling Microscope. Japanese Journal of Applied Physics, 2001, 40, 4328-4330.	0.8	25
34	Preparation of Self-Assembled Mercaptoalkanoic Acid Multilayers on GaAs (110) Surfaces. Japanese Journal of Applied Physics, 1999, 38, 180-185.	0.8	23
35	Selective adsorption and patterning of Si nanoparticles fabricated by laser ablation on functionalized self-assembled monolayer. Applied Physics Letters, 2001, 79, 692-694.	1.5	22
36	Patterning DNA on $\hat{I}\frac{1}{4}$ m scale on mica. Ultramicroscopy, 2002, 91, 281-285.	0.8	22

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37	Fixation and Systematic Dilution of Rotaxane Molecules on Self-Assembled Monolayers. <i>Langmuir</i> , 2003, 19, 2115-2123.	1.6	22
38	Conductive Probe AFM Measurements of Conjugated Molecular Wires. <i>Annals of the New York Academy of Sciences</i> , 2003, 1006, 164-186.	1.8	21
39	Phase separation of a self-assembled monolayer made from hydrocarbon-fluorocarbon disulfide. <i>Applied Physics A: Materials Science and Processing</i> , 1998, 66, S1257-S1260.	1.1	20
40	Au(111) reconstruction observed by atomic force microscopy with lateral force detection. <i>Surface Science</i> , 1994, 311, L649-L654.	0.8	19
41	Electric-dipole layer on Au(111) surfaces. <i>Applied Physics A: Materials Science and Processing</i> , 2001, 72, S181-S184.	1.1	18
42	Synthesis of oligo(para-phenylenevinylene) methyl thiols for self-assembled monolayers on gold surfaces. <i>Synthetic Metals</i> , 2004, 140, 139-149.	2.1	18
43	Surface structure of a fluorinated thiol on Au(111) by scanning force microscopy. <i>Thin Solid Films</i> , 1996, 281-282, 548-551.	0.8	17
44	Lattice disorder and density of states change of graphite surface by single ion impact. <i>Applied Physics A: Materials Science and Processing</i> , 1998, 66, S1155-S1158.	1.1	17
45	Formation Mechanism of Carbon-Nanocapsules and -Nanoparticles Based on the In-Situ Observation. <i>Journal of Physical Chemistry B</i> , 2002, 106, 1247-1251.	1.2	17
46	Scanning tunneling microscopy of dibutylamino-triazine-dithiol monolayer on Au(111). <i>Thin Solid Films</i> , 1996, 273, 70-75.	0.8	16
47	Observation of Liquid Crystals on Graphite by Scanning Tunneling Microscopy. <i>Japanese Journal of Applied Physics</i> , 1990, 29, L119-L122.	0.8	15
48	Gold Substrates for Scanning Tunneling Microscopy of Adsorbed Species. <i>Japanese Journal of Applied Physics</i> , 1991, 30, 3496-3502.	0.8	15
49	Observation and control of adsorbed molecules. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 1991, 9, 1102.	1.6	15
50	Surface Potential Switching by Metal Ion Complexation/Decomplexation Using Bipyridinethiolate Monolayers on Gold. <i>Journal of Physical Chemistry B</i> , 2006, 110, 9195-9203.	1.2	14
51	Observation of Liquid Crystal Molecule on Graphite by Scanning Tunneling Microscopy. <i>Molecular Crystals and Liquid Crystals</i> , 1991, 199, 141-149.	0.7	13
52	Identification of Materials using Direct Force Modulation Technique with Magnetic AFM Cantilever. <i>Japanese Journal of Applied Physics</i> , 1997, 36, 3868-3871.	0.8	13
53	Heat-Induced Phase Separation of Self-Assembled Monolayers of a Fluorocarbon-Hydrocarbon Asymmetric Disulfide on a Au(111) Surface. <i>Japanese Journal of Applied Physics</i> , 1997, 36, 3909-3912.	0.8	13
54	Nanowire formation in self-assembled monolayers from fluorocarbon-hydrocarbon on Au(111). <i>Applied Surface Science</i> , 1998, 130-132, 786-791.	3.1	13

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55	Monte Carlo simulation of phase-separated self-assembled films. <i>Applied Surface Science</i> , 1998, 130-132, 792-796.	3.1	13
56	Lateral Conduction Model for Intermolecular Interaction of Self-Assembled Monolayers. <i>Japanese Journal of Applied Physics</i> , 1999, 38, 3892-3896.	0.8	13
57	Local Properties of Phase-Separated Polymer Surfaces by Force Microscopy. <i>Japanese Journal of Applied Physics</i> , 1994, 33, 3775-3778.	0.8	12
58	Field evaporation of gold by scanning tunneling microscopy. <i>Applied Surface Science</i> , 1995, 87-88, 398-404.	3.1	12
59	Nanometer-Scale Wires of Monolayer Height Alkanethiols on AlGaAs/GaAs Heterostructures by Selective Chemisorption. <i>Japanese Journal of Applied Physics</i> , 1996, 35, L512-L515.	0.8	12
60	Nanometer-scale modifications of gold surfaces by scanning tunneling microscope. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 1995, 13, 1252.	1.6	11
61	Two-color sum frequency generation study of poly(9,9-dioctylfluorene)/electrode interfaces. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 14666.	1.3	11
62	An approach to imaging of living cell surface topography by scanning tunneling microscopy. <i>Biochemical and Biophysical Research Communications</i> , 1991, 177, 636-643.	1.0	10
63	Step Formation on Au (111) Observed by Scanning Tunneling Microscope. <i>Japanese Journal of Applied Physics</i> , 1995, 34, L1151-L1154.	0.8	10
64	Improvement of device performance of polymer organic light-emitting diodes on smooth transparent sheet with graphene films synthesized by plasma treatment. <i>Japanese Journal of Applied Physics</i> , 2015, 54, 095103.	0.8	10
65	Method for Orienting DNA Molecules on Mica Surfaces in One Direction for Atomic Force Microscopy Imaging. <i>Journal of Biomolecular Structure and Dynamics</i> , 2001, 19, 471-477.	2.0	8
66	Selective vapor deposition polymerization on actively patterned surfaces. <i>Surface Science</i> , 2002, 514, 48-53.	0.8	8
67	Conductance Changes of Conjugated 2,2'-Bipyridine Dithiol Derivatives Bound between Nanogap Electrodes by Complexation with Pd(II). <i>Japanese Journal of Applied Physics</i> , 2008, 47, 7369-7371.	0.8	8
68	Formation and evaluation of self-assembled monolayers derived from conjugated silylthiophene derivatives. <i>Applied Surface Science</i> , 1999, 144-145, 445-450.	3.1	7
69	Carbon nanostructure formation by a reduction of PTFE. <i>Thin Solid Films</i> , 2003, 438-439, 313-316.	0.8	7
70	Scanning force microscopy application to polymer surfaces for novel nanoscale surface characterization. <i>Thin Solid Films</i> , 1996, 273, 304-307.	0.8	6
71	Observation of modification and recovery of local properties of polyethylene oxide. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 1997, 15, 1388.	1.6	6
72	Low dimensional structure formation in self-assembled monolayers on Au(111). <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 1999, 154, 219-225.	2.3	6

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73	Field Effect of Self-Assembled Organic Multilayer in Nanogap Electrode; Current Oscillation Behaviour at Room Temperature. Japanese Journal of Applied Physics, 2005, 44, L465-L468.	0.8	6
74	Difference in Self-Assembling Morphology of Peptide Nanorings. Japanese Journal of Applied Physics, 2005, 44, 8240-8248.	0.8	5
75	Modification of alkanethiol self-assembled monolayers on Au by single-ion irradiation. Nuclear Instruments & Methods in Physics Research B, 1999, 148, 1097-1101.	0.6	4
76	Conductivity Measurements of Stilbene-Based Molecules Incorporated into Self-Assembled Monolayers by Conducting Probe Atomic Force Microscopy. Japanese Journal of Applied Physics, 2004, 43, 4511-4516.	0.8	4
77	A simple procedure for fabricating molecular-sized gap junctions using conventional photolithography. Nanotechnology, 2006, 17, 2406-2410.	1.3	4
78	Characterization and protonation behavior of bipyridine thiol self-assembled monolayer on Au(111) studied using X-ray photoelectron spectroscopy and scanning tunneling microscopy. Surface Science, 2007, 601, 68-75.	0.8	4
79	Patterning and Functionalizing Self-Assembled Monolayers. Japanese Journal of Applied Physics, 1999, 38, 7260-7263.	0.8	3
80	Recovery of self-assembled monolayer on Au(111). Applied Surface Science, 1999, 144-145, 414-418.	3.1	3
81	Scanning Tunneling Microscopy Study of Imaging Change Induced by Electric Field Change of Bipyridine Derivatives in Self-Assembled Monolayers. Japanese Journal of Applied Physics, 2004, 43, 4561-4565.	0.8	3
82	Scanning Tunneling Microscopy Observations of Proton and Metal Cation Catching Behavior of Embedded Bipyridine Thiols in Alkanethiol Self-Assembled Monolayers on Au(111). Japanese Journal of Applied Physics, 2006, 45, 6028-6032.	0.8	3
83	Influences of submonolayer proteins on organic light-emitting diodes. Applied Physics Letters, 2007, 91, 024101.	1.5	3
84	Adsorption and Thermal or Photodecomposition of Triethylgallium and Trimethylgallium on Si(111). Japanese Journal of Applied Physics, 1995, 34, 4910-4916.	0.8	2
85	Co-adsorption process of molecules in relation to formation of one dimensional structures in the self-assembled monolayers on Au(111). Applied Surface Science, 1999, 144-145, 439-444.	3.1	2
86	Field-Induced Conductance Change of Thin Organic Films Measured using Trench-Type Electrodes. Japanese Journal of Applied Physics, 2003, 42, 4535-4539.	0.8	2
87	Carbon nanotube formation by an electron beam: alignment- and space-effect of the precursor. Thin Solid Films, 2004, 464-465, 282-285.	0.8	2
88	Photochemical Decomposition of Triethylgallium on Si(111) Studied by Means of STM, LEED, AES and Mass Spectroscopy. Japanese Journal of Applied Physics, 1993, 32, 1768-1771.	0.8	1
89	Organic Transparent Electrodes Applied to Polymer Light Emitting Diodes. E-Journal of Surface Science and Nanotechnology, 2014, 12, 57-62.	0.1	1
90	Journal of the Vacuum Society of Japan, 2008, 51, 439-444.	0.1	1

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91	Extending and manipulating long DNA molecules for high resolution analysis-development of a novel nanobiotechnological tool for atomic force microscopy. , 0, , .		0
92	NANOTUBE TIP FOR STM. International Journal of Nanoscience, 2003, 02, 293-298.	0.4	0
93	FORMATION OF SELF-ASSEMBLED MONOLAYERS ON GOLD SURFACES BY LUMINESCENT OLIGO (PARA-PHENYLENE-VINYLENE)-METHANETHIOL. International Journal of Nanoscience, 2003, 02, 239-244.	0.4	0
94	Barrier Height Measurements of Self-Assembled Monolayers Using Scanning Tunneling Microscopy.. Hyomen Kagaku, 2001, 22, 425-430.	0.0	0
95	Graphene. Hyomen Gijutsu/Journal of the Surface Finishing Society of Japan, 2020, 71, 189-189.	0.1	0
96	SPM Measurements of Electric Properties of Organic Molecules. , 2007, , 776-787.		0