

Takashi Ichii

List of Publications by Year in descending order

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101
papers

1,144
citations

361413

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102
docs citations

102
times ranked

1241
citing authors

#	ARTICLE	IF	CITATIONS
1	True-molecular resolution imaging by frequency modulation atomic force microscopy in various environments. <i>Applied Physics Letters</i> , 2005, 86, 034103.	3.3	56
2	Alkyl and Alkoxy Monolayers Directly Attached to Silicon: Chemical Durability in Aqueous Solutions. <i>Langmuir</i> , 2009, 25, 5516-5525.	3.5	45
3	Molecular-scale noncontact atomic force microscopy contrasts in topography and energy dissipation on c(4Å ²) superlattice structures of alkanethiol self-assembled monolayers. <i>Journal of Applied Physics</i> , 2004, 95, 1222-1226.	2.5	44
4	Surface potential measurements of phase-separated alkanethiol self-assembled monolayers by non-contact atomic force microscopy. <i>Nanotechnology</i> , 2004, 15, S30-S33.	2.6	33
5	Self-Assembly of Graphene Oxide on Silicon Substrate via Covalent Interaction: Low Friction and Remarkable Wear-Resistivity. <i>Advanced Materials Interfaces</i> , 2016, 3, 1500410.	3.7	33
6	Atomic-Resolution Imaging on Alkali Halide Surfaces in Viscous Ionic Liquid Using Frequency Modulation Atomic Force Microscopy. <i>Journal of Physical Chemistry C</i> , 2014, 118, 26803-26807.	3.1	32
7	Frequency Modulation Atomic Force Microscopy in Ionic Liquid Using Quartz Tuning Fork Sensors. <i>Japanese Journal of Applied Physics</i> , 2012, 51, 08KB08.	1.5	31
8	Phase-separated alkanethiol self-assembled monolayers investigated by non-contact AFM. <i>Applied Surface Science</i> , 2003, 210, 99-104.	6.1	30
9	Site-Selective Assembly and Reorganization of Gold Nanoparticles along Aminosilane-Covered Nanolines Prepared on Indium-Tin Oxide. <i>Langmuir</i> , 2012, 28, 7579-7584.	3.5	30
10	Frequency Modulation Atomic Force Microscopy in Ionic Liquid Using Quartz Tuning Fork Sensors. <i>Japanese Journal of Applied Physics</i> , 2012, 51, 08KB08.	1.5	30
11	Surface Chemical Conversion of Organosilane Self-Assembled Monolayers with Active Oxygen Species Generated by Vacuum Ultraviolet Irradiation of Atmospheric Oxygen Molecules. <i>Japanese Journal of Applied Physics</i> , 2008, 47, 307.	1.5	28
12	Vacuum-ultraviolet photoreduction of graphene oxide: Electrical conductivity of entirely reduced single sheets and reduced micro line patterns. <i>Applied Physics Letters</i> , 2015, 106, .	3.3	27
13	Chemical conversion of self-assembled hexadecyl monolayers with active oxygen species generated by vacuum ultraviolet irradiation in an atmospheric environment. <i>Soft Matter</i> , 2015, 11, 5678-5687.	2.7	24
14	Vacuum-Ultraviolet Promoted Oxidative Micro Photoetching of Graphene Oxide. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 10627-10635.	8.0	24
15	Self-Assembly Guided One-Dimensional Arrangement of Gold Nanoparticles: A Facile Approach. <i>Journal of Physical Chemistry C</i> , 2008, 112, 16182-16185.	3.1	22
16	Anionic effect of ionic liquids electrolyte on electrochemical behavior of ferrocenylthiol/alkanethiol binary SAMs. <i>Journal of Electroanalytical Chemistry</i> , 2010, 643, 58-66.	3.8	22
17	Fabrication of reduced graphene oxide micro patterns by vacuum-ultraviolet irradiation: From chemical and structural evolution to improving patterning precision by light collimation. <i>Carbon</i> , 2017, 119, 82-90.	10.3	22
18	A relationship between the force curve measured by atomic force microscopy in an ionic liquid and its density distribution on a substrate. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 30504-30512.	2.8	21

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19	Lithiation behavior of single-phase Cu-Sn intermetallics and effects on their negative-electrode properties. <i>Electrochimica Acta</i> , 2013, 98, 239-243.	5.2	20
20	Photochemical Assembly of Gold Nanoparticle Arrays Covalently Attached to Silicon Surface Assisted by Localized Plasmon in the Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2013, 117, 2480-2485.	3.1	20
21	Decoration of reduced graphene oxide by gold nanoparticles: an enhanced negative photoconductivity. <i>Nanoscale</i> , 2017, 9, 14703-14709.	5.6	20
22	Self-assembled thin film of imidazolium ionic liquid on a silicon surface: Low friction and remarkable wear-resistivity. <i>Applied Surface Science</i> , 2016, 364, 878-885.	6.1	18
23	Molecular packing density of a self-assembled monolayer formed from N-(2-aminoethyl)-3-aminopropyltriethoxysilane by a vapor phase process. <i>Chemical Communications</i> , 2011, 47, 8841.	4.1	17
24	Visualization of Ionic-Liquid/Solid Interfaces by Frequency Modulation Atomic Force Microscopy. <i>ECS Transactions</i> , 2013, 50, 349-355.	0.5	17
25	Formation of uniform ferrocenyl-terminated monolayer covalently bonded to Si using reaction of hydrogen-terminated Si(1 1 1) surface with vinylferrocene/n-decane solution by visible-light excitation. <i>Journal of Colloid and Interface Science</i> , 2011, 361, 259-269.	9.4	16
26	Preparation of Cu-Sn Layers on Polymer Substrate by Reduction-Diffusion Method Using Ionic Liquid Baths. <i>Journal of the Electrochemical Society</i> , 2011, 158, D335.	2.9	16
27	Submolecular-Resolution Studies on Metal-Phthalocyanines by Noncontact Atomic Force Microscopy. <i>Japanese Journal of Applied Physics</i> , 2004, 43, 4691-4694.	1.5	14
28	Low Damage Reductive Patterning of Oxidized Alkyl Self-Assembled Monolayers through Vacuum Ultraviolet Light Irradiation in an Evacuated Environment. <i>Langmuir</i> , 2017, 33, 10829-10837.	3.5	14
29	Immobilization of Reduced Graphene Oxide on Hydrogen-Terminated Silicon Substrate as a Transparent Conductive Protector. <i>Langmuir</i> , 2017, 33, 10765-10771.	3.5	13
30	1,2-Epoxyalkane: Another Precursor for Fabricating Alkoxy Self-Assembled Monolayers on Hydrogen-Terminated Si(111). <i>Langmuir</i> , 2018, 34, 13162-13170.	3.5	13
31	Simultaneous detection of vertical and lateral forces by bimodal AFM utilizing a quartz tuning fork sensor with a long tip. <i>Japanese Journal of Applied Physics</i> , 2019, 58, 095003.	1.5	13
32	Alkanethiol Self-Assembled Monolayers Formed on Silicon Substrates. <i>Japanese Journal of Applied Physics</i> , 2010, 49, 01AE09.	1.5	12
33	Enhanced Anodic Dissolution of Magnesium in Quaternary-Ammonium-Based Ionic Liquid Containing a Small Amount of Water. <i>Journal of the Electrochemical Society</i> , 2013, 160, D453-D458.	2.9	12
34	Reductive patterning of graphene oxide by vacuum-ultraviolet irradiation in high vacuum. <i>Applied Physics Express</i> , 2014, 7, 075101.	2.4	12
35	Solvation structure on water-in-salt/mica interfaces and its molality dependence investigated by atomic force microscopy. <i>Japanese Journal of Applied Physics</i> , 2020, 59, SN1003.	1.5	12
36	Vacuum ultraviolet trimming of oxygenated functional groups from oxidized self-assembled hexadecyl monolayers in an evacuated environment. <i>Applied Surface Science</i> , 2017, 416, 971-979.	6.1	12

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37	Molecular-scale investigations of semi-insulating polymer single crystals by noncontact atomic force microscopy. <i>Nanotechnology</i> , 2005, 16, S22-S26.	2.6	11
38	Organosilane self-assembled multilayer formation based on activation of methyl-terminated surface with reactive oxygen species generated by vacuum ultra-violet excitation of atmospheric oxygen molecules. <i>Applied Surface Science</i> , 2009, 256, 1507-1513.	6.1	11
39	Reductive Nucleation of Palladium Nanoparticles on a Cycloolefin Polymer Surface Oxidized with Active Oxygen Species Generated by Vacuum Ultraviolet Excitation. <i>Chemistry Letters</i> , 2014, 43, 1557-1559.	1.3	11
40	Chemical etching of silicon assisted by graphene oxide. <i>Japanese Journal of Applied Physics</i> , 2019, 58, 050924.	1.5	11
41	UV induced covalent assembly of gold nanoparticles in linear patterns on oxide free silicon surface. <i>Journal of Materials Chemistry</i> , 2012, 22, 16546.	6.7	10
42	Scanning probe anodization patterning of Si substrates covered with a self-assembled monolayer dependent on surface hydrophilicity. <i>Journal of Vacuum Science & Technology B</i> , 2009, 27, 928.	1.3	9
43	Molecular-resolution imaging of lead phthalocyanine molecules by small amplitude frequency modulation atomic force microscopy using second flexural mode. <i>Applied Physics Letters</i> , 2009, 94, .	3.3	9
44	Potentiostatic Cu-Zn Alloying for Polymer Metallization Using Medium-Low Temperature Ionic Liquid Baths. <i>Journal of the Electrochemical Society</i> , 2013, 160, D417-D421.	2.9	9
45	True Molecular-resolution Imaging on Alkanethiol Self-assembled Monolayers in Ionic Liquids by Frequency Modulation Atomic Force Microscopy Utilizing a Quartz Tuning Fork Sensor. <i>Chemistry Letters</i> , 2015, 44, 459-461.	1.3	9
46	Noncontact Atomic Force Microscopy Investigation of Phase-Separated Alkanethiol Self-Assembled Monolayers with Different Head Groups. <i>Japanese Journal of Applied Physics</i> , 2004, 43, 4545-4548.	1.5	8
47	Alternate stacking of transition metal ions and terephthalic acid molecules for the fabrication of self-assembled multilayers. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2008, 321, 249-253.	4.7	8
48	Submolecular-scale Investigations on metal-phthalocyanine monolayers by frequency modulation atomic force microscopy. <i>Journal of Applied Physics</i> , 2010, 107, 024315.	2.5	8
49	Covalent assembly of silver nanoparticles on hydrogen-terminated silicon surface. <i>Journal of Colloid and Interface Science</i> , 2012, 382, 22-27.	9.4	8
50	Structural Analysis of Ionic-liquid/Organic-monolayer Interface by Phase Modulation Atomic Force Microscopy Utilizing a Quartz Tuning Fork Sensor. <i>Electrochemistry</i> , 2014, 82, 380-384.	1.4	8
51	Formation of submicron-sized silica patterns on flexible polymer substrates based on vacuum ultraviolet photo-oxidation. <i>RSC Advances</i> , 2019, 9, 32313-32322.	3.6	8
52	Room temperature direct patterning of nanocrystalline zinc oxide on flexible polymer substrates through vacuum ultraviolet light irradiation. <i>Thin Solid Films</i> , 2020, 709, 138166.	1.8	8
53	Visualizing polymeric liquid/solid interfaces by atomic force microscopy utilizing quartz tuning fork sensors. <i>Japanese Journal of Applied Physics</i> , 2020, 59, SN1009.	1.5	8
54	Small Amplitude Frequency Modulation Atomic Force Microscopy of Lead Phthalocyanine Molecules Using Cantilever with Very High Spring Constant. <i>Japanese Journal of Applied Physics</i> , 2008, 47, 6125.	1.5	7

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55	Soft processing for formation of self-assembled monolayer on hydrogen-terminated silicon surface based on visible-light excitation. <i>Journal of Vacuum Science & Technology B</i> , 2009, 27, 858-862.	1.3	7
56	Activation of Cyclo-Olefin Polymer Surface for the Promotion of Palladium Adsorption Based on the Oxygen-Amprified Vacuum Ultra-Violet Process. <i>Hyomen Gijutsu/Journal of the Surface Finishing Society of Japan</i> , 2013, 64, 662-668.	0.2	7
57	Fabrication of TiO ₂ Micropatterns on Flexible Substrates by Vacuum-Ultraviolet Photochemical Treatments. <i>Advanced Materials Interfaces</i> , 2020, 7, 1901634.	3.7	7
58	Self-Assembled Monolayers of Alkanethiol and Fluoroalkanethiol Investigated by Noncontact Atomic Force Microscopy. <i>Japanese Journal of Applied Physics</i> , 2005, 44, 5378-5381.	1.5	6
59	Scanning Capacitance Microscopy for Alkylsilane-Monolayer-Covered Si Substrate Patterned by Scanning Probe Lithography. <i>Japanese Journal of Applied Physics</i> , 2007, 46, 5621.	1.5	6
60	DNA origami assembly on patterned silicon by AFM based lithography. , 2013, , .		6
61	Enhancing the electrical conductivity of vacuum-ultraviolet-reduced graphene oxide by multilayered stacking. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2017, 35, 03D110.	1.2	6
62	Protective layer for cycloolefin polymer against an aromatic solvent prepared by chemical vapor deposition using cyclosiloxane as a raw molecule. <i>Thin Solid Films</i> , 2017, 638, 28-33.	1.8	6
63	Vacuum Ultraviolet Treatment of Acid- and Ester-Terminated Self-Assembled Monolayers: Chemical Conversions and Friction Reduction. <i>Langmuir</i> , 2018, 34, 3228-3236.	3.5	6
64	Room temperature bonding of cycloolefin polymer by vacuum ultraviolet surface photoactivation. <i>International Journal of Adhesion and Adhesives</i> , 2020, 100, 102604.	2.9	6
65	Visualization of solvation structure on Li ₄ Ti ₅ O ₁₂ (111)/ ionic liquid-based electrolyte interface by atomic force microscopy. <i>Japanese Journal of Applied Physics</i> , 2021, 60, SE1004.	1.5	6
66	Reversible Potential Change of Ferrocenylthiol Monolayers Induced by Atomic Force Microscopy. <i>Japanese Journal of Applied Physics</i> , 2009, 48, 08JB15.	1.5	5
67	Cu-Sn Alloy Metallization of Polymer Substrate through Reduction-Diffusion Method Using Ionic Liquid Bath at Medium-Low Temperatures. <i>Electrochemistry</i> , 2009, 77, 677-679.	1.4	5
68	Nanotemplate Prepared by Means of Vacuum Ultraviolet Patterning of Alkylsilane Self-assembled Monolayer on ITO Using a Porous Alumina Mask: Application to the Fabrication of Gold Nanoparticle Arrays. <i>Chemistry Letters</i> , 2012, 41, 392-393.	1.3	5
69	Use of Diode Analogy in Explaining the Voltammetric Characteristics of Immobilized Ferrocenyl Moieties on a Silicon Surface. <i>ChemElectroChem</i> , 2015, 2, 68-72.	3.4	5
70	Anodic Dissolution Behavior of Magnesium in Hydrophobic Ionic Liquids. <i>ECS Transactions</i> , 2011, 33, 65-70.	0.5	4
71	Self-aligned nucleation of gold onto templates with a nano-scale precision fabricated by scanning probe lithography. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2011, 221, 209-213.	3.9	4
72	Photochemical Preparation of Methyl-terminated Si(111) Surface Using a Grignard Reagent. <i>Chemistry Letters</i> , 2012, 41, 902-904.	1.3	4

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73	Vinylferrocene Photochemical Preparation on Si(111) Surface in Different Grafting Media. Chemistry Letters, 2012, 41, 1188-1190.	1.3	4
74	Photochemical Preparation of Alkoxy Self-assembled Monolayers on Si from 1,2-Epoxyalkane Molecules. Chemistry Letters, 2016, 45, 561-563.	1.3	4
75	Local current mapping of electrochemically-exfoliated graphene oxide by conductive AFM. Japanese Journal of Applied Physics, 2020, 59, SN1001.	1.5	4
76	Chemical Etching of Silicon Assisted by Graphene Oxide in an HF/HNO ₃ Solution and Its Catalytic Mechanism. Langmuir, 2021, 37, 9920-9926.	3.5	4
77	Electrochemical Behavior of Ferrocenylthiol / Alkanethiol Binary SAM in Ionic Liquids. ECS Transactions, 2009, 16, 575-581.	0.5	3
78	Potentiostatic Cu-Zn Alloying for Polymer Metallization Using Medium-Low Temperature Ionic Liquid Baths. ECS Transactions, 2010, 33, 515-521.	0.5	3
79	Self-alignment of Gold Nanoparticles through the Control of Particle-substrate and Particle-particle Interactions. Procedia Engineering, 2012, 36, 374-381.	1.2	3
80	Circular Arrays of Gold Nanoparticles of a Single Particle Line Thickness Formed on Indium Tin Oxide. Applied Physics Express, 2012, 5, 025202.	2.4	3
81	Photochemical grafting of methyl groups on a Si(111) surface using a Grignard reagent. Journal of Colloid and Interface Science, 2013, 411, 145-151.	9.4	3
82	Microstructured SiO ₂ /COP Stamps for Patterning TiO ₂ on Polymer Substrates via Microcontact Printing. Langmuir, 2020, 36, 10933-10940.	3.5	3
83	Kelvin probe force microscopy studies on the influence of hydrocarbon chain length on 1-alkene self-assembled monolayers on Si (111). Japanese Journal of Applied Physics, 2021, 60, SE1005.	1.5	3
84	Controlled Growth of Organosilane Micropatterns on Hydrophilic and Hydrophobic Surfaces Templated by Vacuum Ultraviolet Photolithography. Langmuir, 2021, 37, 13932-13940.	3.5	3
85	Atomic-Scale Structural Analysis on the Interfaces between Molten Gallium and Solid Alloys by Atomic Force Microscopy. Journal of Physical Chemistry C, 2021, 125, 26201-26207.	3.1	3
86	Investigation of BMI-PF6 Ionic Liquid/Graphite Interface Using Frequency Modulation Atomic Force Microscopy. MRS Advances, 2018, 3, 2725-2733.	0.9	2
87	Surface potential contrasts between 1-alkene, 1-thiol and 1-alcohol self-assembled monolayers on silicon (111) substrate. Japanese Journal of Applied Physics, 2020, 59, SDDC06.	1.5	2
88	Vacuum Ultra-violet Photo-Activation Bonding of Polyoxymethylene Plate. Hyomen Gijutsu/Journal of the Surface Finishing Society of Japan, 2021, 72, 704-706.	0.2	2
89	Cu-Sn Alloy Metallization of Polymer through Reduction-Diffusion Method Using Ionic Liquid Bath at Medium-Low Temperature. ECS Transactions, 2009, 16, 461-468.	0.5	1
90	Chemical Immobilization of Graphene Oxide on Hydrogen Terminated Silicon via Vinyl Aniline Molecule Linking. Chemistry Letters, 2019, 48, 1101-1104.	1.3	1

