

Takashi Ichii

List of Publications by Year in descending order

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citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of additive metal salt on ionic liquid/Li ₄ Ti ₅ O ₁₂ electrode interfaces investigated by atomic force microscopy. Japanese Journal of Applied Physics, 2022, 61, SL1007.	1.5	1
2	Fabrication of reduced graphene oxide with high electrical conductivity by thermal-assisted photoreduction of electrochemically-exfoliated graphene oxide. Japanese Journal of Applied Physics, 2022, 61, SL1012.	1.5	1
3	Visualization of solvation structure on Li ₄ Ti ₅ O ₁₂ (111)/ ionic liquid-based electrolyte interface by atomic force microscopy. Japanese Journal of Applied Physics, 2021, 60, SE1004.	1.5	6
4	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
5	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
6	Controlled Growth of Organosilane Micropatterns on Hydrophilic and Hydrophobic Surfaces Templated by Vacuum Ultraviolet Photolithography. Langmuir, 2021, 37, 13932-13940.	3.5	3
7	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
8	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
9	Microstructured SiO _x /COP Stamps for Patterning TiO ₂ on Polymer Substrates via Microcontact Printing. Langmuir, 2020, 36, 10933-10940.	3.5	3
10	Room temperature direct patterning of nanocrystalline zinc oxide on flexible polymer substrates through vacuum ultraviolet light irradiation. Thin Solid Films, 2020, 709, 138166.	1.8	8
11	Visualizing polymeric liquid/solid interfaces by atomic force microscopy utilizing quartz tuning fork sensors. Japanese Journal of Applied Physics, 2020, 59, SN1009.	1.5	8
12	Solvation structure on water-in-salt/mica interfaces and its molality dependence investigated by atomic force microscopy. Japanese Journal of Applied Physics, 2020, 59, SN1003.	1.5	12
13	Fabrication of TiO ₂ Micropatterns on Flexible Substrates by Vacuum Ultraviolet Photochemical Treatments. Advanced Materials Interfaces, 2020, 7, 1901634.	3.7	7
14	Room temperature bonding of cycloolefin polymer by vacuum ultraviolet surface photoactivation. International Journal of Adhesion and Adhesives, 2020, 100, 102604.	2.9	6
15	Local current mapping of electrochemically-exfoliated graphene oxide by conductive AFM. Japanese Journal of Applied Physics, 2020, 59, SN1001.	1.5	4
16	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
17	Stability of a phosphonic acid monolayer on aluminum in liquid environments. Japanese Journal of Applied Physics, 2020, 59, SDDA08.	1.5	1
18	Simultaneous detection of vertical and lateral forces by bimodal AFM utilizing a quartz tuning fork sensor with a long tip. Japanese Journal of Applied Physics, 2019, 58, 095003.	1.5	13

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19	Chemical Immobilization of Graphene Oxide on Hydrogen Terminated Silicon via Vinyl Aniline Molecule Linking. <i>Chemistry Letters</i> , 2019, 48, 1101-1104.	1.3	1
20	Chemical etching of silicon assisted by graphene oxide. <i>Japanese Journal of Applied Physics</i> , 2019, 58, 050924.	1.5	11
21	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
22	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
23	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
24	Investigation of BMI-PF6 Ionic Liquid/Graphite Interface Using Frequency Modulation Atomic Force Microscopy. <i>MRS Advances</i> , 2018, 3, 2725-2733.	0.9	2
25	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
26	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
27	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
28	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
29	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
30	Decoration of reduced graphene oxide by gold nanoparticles: an enhanced negative photoconductivity. <i>Nanoscale</i> , 2017, 9, 14703-14709.	5.6	20
31	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
32	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
33	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
34	Vacuum-Ultraviolet Promoted Oxidative Micro Photoetching of Graphene Oxide. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 10627-10635.	8.0	24
35	Photochemical Preparation of Alkoxy Self-assembled Monolayers on Si from 1,2-Epoxyalkane Molecules. <i>Chemistry Letters</i> , 2016, 45, 561-563.	1.3	4
36	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

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37	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
38	Two-step sharpening process for silicon probe in quartz-based atomic force microscopy sensor. <i>Japanese Journal of Applied Physics</i> , 2015, 54, 098005.	1.5	0
39	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
40	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
41	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
42	High-resolution Structural Analysis on Ionic-Liquid/Solid Interfaces by Frequency Modulation Atomic Force Microscopy. <i>Microscopy (Oxford, England)</i> , 2014, 63, i10.1-i11.	1.5	0
43	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
44	Reductive patterning of graphene oxide by vacuum-ultraviolet irradiation in high vacuum. <i>Applied Physics Express</i> , 2014, 7, 075101.	2.4	12
45	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
46	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
47	Photochemical grafting of methyl groups on a Si(111) surface using a Grignard reagent. <i>Journal of Colloid and Interface Science</i> , 2013, 411, 145-151.	9.4	3
48	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
49	DNA origami assembly on patterned silicon by AFM based lithography. , 2013, , .		6
50	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
51	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
52	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
53	Visible Light-Induced Immobilization of Gold Nanoparticles on Silicon Substrates. <i>ECS Transactions</i> , 2013, 50, 137-143.	0.5	0
54	Visualization of Ionic-Liquid/Solid Interfaces by Frequency Modulation Atomic Force Microscopy. <i>ECS Transactions</i> , 2013, 50, 349-355.	0.5	17

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55	Vinylferrocene-Terminated Si(111) Prepared in Diethyl Ether and Dibutyl Ether Grafting Media. ECS Transactions, 2013, 50, 37-46.	0.5	0
56	Activation of Cyclo-Olefine Polymer Surface for the Promotion of Palladium Adsorption Based on the Oxygen-Amprified Vacuum Ultra-Violet Process. Hyomen Gijutsu/Journal of the Surface Finishing Society of Japan, 2013, 64, 662-668.	0.2	7
57	Frequency Modulation Atomic Force Microscopy in Ionic Liquid Using Quartz Tuning Fork Sensors. Japanese Journal of Applied Physics, 2012, 51, 08KB08.	1.5	31
58	Photochemical Preparation of Methyl-terminated Si(111) Surface Using a Grignard Reagent. Chemistry Letters, 2012, 41, 902-904.	1.3	4
59	Vinylferrocene Photochemical Preparation on Si(111) Surface in Different Grafting Media. Chemistry Letters, 2012, 41, 1188-1190.	1.3	4
60	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. Chemistry Letters, 2012, 41, 392-393.	1.3	5
61	Self-alignment of Gold Nanoparticles through the Control of Particle-substrate and Particle-particle Interactions. Procedia Engineering, 2012, 36, 374-381.	1.2	3
62	UV induced covalent assembly of gold nanoparticles in linear patterns on oxide free silicon surface. Journal of Materials Chemistry, 2012, 22, 16546.	6.7	10
63	Site-Selective Assembly and Reorganization of Gold Nanoparticles along Aminosilane-Covered Nanolines Prepared on Indium-Tin Oxide. Langmuir, 2012, 28, 7579-7584.	3.5	30
64	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
65	Covalent assembly of silver nanoparticles on hydrogen-terminated silicon surface. Journal of Colloid and Interface Science, 2012, 382, 22-27.	9.4	8
66	Frequency Modulation Atomic Force Microscopy in Ionic Liquid Using Quartz Tuning Fork Sensors. Japanese Journal of Applied Physics, 2012, 51, 08KB08.	1.5	30
67	Anodic Dissolution Behavior of Magnesium in Hydrophobic Ionic Liquids. ECS Transactions, 2011, 33, 65-70.	0.5	4
68	Molecular packing density of a self-assembled monolayer formed from N-(2-aminoethyl)-3-aminopropyltriethoxysilane by a vapor phase process. Chemical Communications, 2011, 47, 8841.	4.1	17
69	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. Journal of Colloid and Interface Science, 2011, 361, 259-269.	9.4	16
70	Self-aligned nucleation of gold onto templates with a nano-scale precision fabricated by scanning probe lithography. Journal of Photochemistry and Photobiology A: Chemistry, 2011, 221, 209-213.	3.9	4
71	Preparation of Cu-Sn Layers on Polymer Substrate by Reduction-Diffusion Method Using Ionic Liquid Baths. Journal of the Electrochemical Society, 2011, 158, D335.	2.9	16
72	Anionic effect of ionic liquids electrolyte on electrochemical behavior of ferrocenylthiol/alkanethiol binary SAMs. Journal of Electroanalytical Chemistry, 2010, 643, 58-66.	3.8	22

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73	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
74	Potentiostatic Cu-Zn Alloying for Polymer Metallization Using Medium-Low Temperature Ionic Liquid Baths. <i>ECS Transactions</i> , 2010, 33, 515-521.	0.5	3
75	Alkanethiol Self-Assembled Monolayers Formed on Silicon Substrates. <i>Japanese Journal of Applied Physics</i> , 2010, 49, 01AE09.	1.5	12
76	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
77	Reversible Potential Change of Ferrocenylthiol Monolayers Induced by Atomic Force Microscopy. <i>Japanese Journal of Applied Physics</i> , 2009, 48, 08JB15.	1.5	5
78	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
79	Cu-Sn Alloy Metallization of Polymer through Reduction-Diffusion Method Using Ionic Liquid Bath at Medium-Low Temperature. <i>ECS Transactions</i> , 2009, 16, 461-468.	0.5	1
80	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
81	Alkyl and Alkoxy Monolayers Directly Attached to Silicon: Chemical Durability in Aqueous Solutions. <i>Langmuir</i> , 2009, 25, 5516-5525.	3.5	45
82	Electrochemical Behavior of Ferrocenylthiol / Alkanethiol Binary SAM in Ionic Liquids. <i>ECS Transactions</i> , 2009, 16, 575-581.	0.5	3
83	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
84	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
85	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
86	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
87	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
88	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
89	表面化学的有機シリランモノレイヤーの形成とその特性. <i>Hyomen Gijutsu/Journal of the Surface Finishing Society of Japan</i> , 2008, 59, 806-811.		
90	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

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91	Self-Assembled Monolayers of Alkanethiol and Fluoroalkanethiol Investigated by Noncontact Atomic Force Microscopy. Japanese Journal of Applied Physics, 2005, 44, 5378-5381.	1.5	6
92	Molecular-scale investigations of semi-insulating polymer single crystals by noncontact atomic force microscopy. Nanotechnology, 2005, 16, S22-S26.	2.6	11
93	True-molecular resolution imaging by frequency modulation atomic force microscopy in various environments. Applied Physics Letters, 2005, 86, 034103.	3.3	56
94	Noncontact Atomic Force Microscopy Investigation of Phase-Separated Alkanethiol Self-Assembled Monolayers with Different Head Groups. Japanese Journal of Applied Physics, 2004, 43, 4545-4548.	1.5	8
95	Submolecular-Resolution Studies on Metal-Phthalocyanines by Noncontact Atomic Force Microscopy. Japanese Journal of Applied Physics, 2004, 43, 4691-4694.	1.5	14
96	Surface potential measurements of phase-separated alkanethiol self-assembled monolayers by non-contact atomic force microscopy. Nanotechnology, 2004, 15, S30-S33.	2.6	33
97	Molecular-scale noncontact atomic force microscopy contrasts in topography and energy dissipation on $c(4\text{\AA}-2)$ superlattice structures of alkanethiol self-assembled monolayers. Journal of Applied Physics, 2004, 95, 1222-1226.	2.5	44
98	Phase-separated alkanethiol self-assembled monolayers investigated by non-contact AFM. Applied Surface Science, 2003, 210, 99-104.	6.1	30
99	Surface charge dependent structure of ionic liquid/alkali halide interfaces investigated by atomic force microscopy. Japanese Journal of Applied Physics, 0, , .	1.5	1
100	Surface potential and local conductivity measurements of micropatterned aromatic monolayers covalently attached to n-Si(111) via Si-C and Si-O bonds. Japanese Journal of Applied Physics, 0, , .	1.5	0
101	Effect of anion on water-in-salt/solid interfacial structures investigated by atomic force microscopy. Japanese Journal of Applied Physics, 0, , .	1.5	0