Masaru Nakagawa

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Nondestructive x-ray reflectivity analysis of Al distributions of ultraviolet-cured spin-coated resist films hybridized with trimethylaluminum. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2022, 40, 032601.	1.2	1
2	Suppression of resist pattern collapse by crosslinker in ultraviolet nanoimprinting involving sequential infiltration synthesis with trimethylaluminum. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2021, 39, 032603.	1.2	2
3	Plastic deformation of synthetic quartz nanopillars by nanoindentation for multi-scale and multi-level security artefact metrics. Scientific Reports, 2021, 11, 16550.	3.3	2
4	Selective dry etching of UV-nanoimprinted resin passivation masks for area selective atomic layer deposition of aluminum oxide. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2021, 39, 052804.	1.2	2
5	Organic–Inorganic Hybrid Replica Molds with High Mechanical Strength for Step-and-Repeat Ultraviolet Nanoimprinting. Bulletin of the Chemical Society of Japan, 2020, 93, 862-869.	3.2	8
6	Depth profiles of aluminum component in sequential infiltration synthesis-treated electron beam resist films analyzed by time-of-flight secondary ion mass spectrometry. Japanese Journal of Applied Physics, 2020, 59, SIIC03.	1.5	6
7	Ultimate Nano Molding and Transferring by Novel Nanoimprint Technique of Print-and-Imprint Method. Hyomen Gijutsu/Journal of the Surface Finishing Society of Japan, 2020, 71, 468-471.	0.2	0
8	"Print-and-Imprint―MethodÂ: Novel Nanoimprint Technology Based on Laser-Drilled Screen Printing. Vacuum and Surface Science, 2020, 63, 592-597.	0.1	0
9	Sequential infiltration synthesis- and solvent annealing-induced morphological changes in positive-tone e-beam resist patterns evaluated by atomic force microscopy. Japanese Journal of Applied Physics, 2019, 58, SDDJ04.	1.5	6
10	Photoinduced Reorientation in Thin Films of a Nematic Liquid Crystalline Polymer Anchored to Interfaces and Enhancement Using Small Liquid Crystalline Molecules. Langmuir, 2019, 35, 14222-14229.	3.5	1
11	Selection of Polymerizable Functional Group of Adhesive Monolayer to Control Monomer Viscosity under Confinement in Silica Nano-gaps. Chemistry Letters, 2019, 48, 943-946.	1.3	8
12	Surface forces between hydrophilic silica surfaces in a moisture-sensitive oleophilic diacrylate monomer liquid. AIP Advances, 2018, 8, 025122.	1.3	2
13	Development of UV-Curable Resins Suitable for Reverse-Tone Lithography for Au Metamaterials Using a Print-and-Imprint Method. Bulletin of the Chemical Society of Japan, 2018, 91, 178-186.	3.2	17
14	Pulsed Laser Drilling of Engineering Plastic Films to Fabricate Through-Hole Membranes for Print-and-Imprint Method. Transactions of the Materials Research Society of Japan, 2018, 43, 289-292.	0.2	6
15	Elemental depth profiles and plasma etching rates of positive-tone electron beam resists after sequential infiltration synthesis of alumina. Japanese Journal of Applied Physics, 2018, 57, 06HG01.	1.5	13
16	Visualization of organic/inorganic hybridization of UV-cured films with trimethylaluminum by scanning transmission electron microscopy and energy dispersive x-ray spectroscopy. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2018, 36, 06JF02.	1.2	6
17	Selection of Diacrylate Monomers for Sub-15 nm Ultraviolet Nanoimprinting by Resonance Shear Measurement. Langmuir, 2018, 34, 9366-9375.	3.5	13
18	Nanometer-Resolved Fluidity of an Oleophilic Monomer between Silica Surfaces Modified with Fluorinated Monolayers for Nanoimprinting. ACS Applied Materials & Interfaces, 2017, 9, 6591-6598.	8.0	15

MASARU NAKAGAWA

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19	Silica imprint templates with concave patterns from single-digit nanometers fabricated by electron beam lithography involving argon ion beam milling. Japanese Journal of Applied Physics, 2017, 56, 06GL01.	1.5	10
20	Gold microelectrodes fabricated by a print-and-imprint method using laser-drilled polyimide through-hole masks. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2017, 35, .	1.2	10
21	Unimodal Nematic Liquid Crystalline Random Copolymers Designed for Accepting Chiral Dopants. Bulletin of the Chemical Society of Japan, 2017, 90, 216-222.	3.2	2
22	Durability to oxygen reactive ion etching enhanced by addition of synthesized bis(trimethylsilyl)phenyl-containing (meth)acrylates in ultraviolet nanoimprint lithography. Japanese Journal of Applied Physics, 2016, 55, 06GM02.	1.5	3
23	Anisotropic Oxygen Reactive Ion Etching for Removing Residual Layers from 45 nm-width Imprint Patterns. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2016, 29, 201-208.	0.3	13
24	Viscosity range of UV-curable resins usable in print and imprint method for preparing sub-100-nm-wide resin patterns. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2016, 34, .	1.2	11
25	Demolding in Ultraviolet Nanoimprinting Assisted by a Nanoscale Lubricating Fluid Layer of Condensed Alternative Chlorofluorocarbon. Bulletin of the Chemical Society of Japan, 2016, 89, 786-793.	3.2	18
26	Size-Dependent Filling Behavior of UV-Curable Di(meth)acrylate Resins into Carbon-Coated Anodic Aluminum Oxide Pores of around 20 nm. ACS Applied Materials & Interfaces, 2016, 8, 30628-30634.	8.0	11
27	Discharge of viscous UV-curable resin droplets by screen printing for UV nanoimprint lithography. Japanese Journal of Applied Physics, 2016, 55, 06GM01.	1.5	12
28	Innovative UV nanoimprint lithography using a condensable alternative chlorofluorocarbon atmosphere. Microelectronic Engineering, 2015, 133, 134-155.	2.4	45
29	Selection of Di(meth)acrylate Monomers for Low Pollution of Fluorinated Mold Surfaces in Ultraviolet Nanoimprint Lithography. Langmuir, 2015, 31, 4188-4195.	3.5	21
30	Formation of 0.3-nm-high stepped polymer surface by thermal nanoimprinting. Applied Physics Express, 2014, 7, 055202.	2.4	15
31	Directed self-assembly of nematic liquid crystalline polymers on a rubbed polyimide alignment layer. Japanese Journal of Applied Physics, 2014, 53, 06JC04.	1.5	5
32	Surface-Assisted Unidirectional Orientation of ZnO Nanorods Hybridized with Nematic Liquid Crystals. ACS Applied Materials & Interfaces, 2014, 6, 811-818.	8.0	14
33	Investigation of Fluorinated (Meth)Acrylate Monomers and Macromonomers Suitable for a Hydroxy-Containing Acrylate Monomer in UV Nanoimprinting. Langmuir, 2014, 30, 7127-7133.	3.5	26
34	Breakthrough Achievement In Nanoimprint Lithography Using PFP Condensable Gas. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2014, 27, 61-72.	0.3	5
35	Preparation of UV-cured organic–inorganic hybrid materials with low refractive index for multilayer film applications. Optical Materials Express, 2013, 3, 1351.	3.0	5
36	Fabrication of Gold Split-ring Resonator Arrays by Surface-assisted Ultraviolet Nanoimprint Lithography Using Hydroxy-terminated Alkanethiol Monolayers. Chemistry Letters, 2013, 42, 1475-1477.	1.3	14

Masaru Nakagawa

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37	Super-resolution fluorescence imaging of nanoimprinted polymer patterns by selective fluorophore adsorption combined with redox switching. AIP Advances, 2013, 3, 102128.	1.3	9
38	Innovative Nanoimprint Lithography Using PFP Condensable Gas. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2013, 26, 87-96.	0.3	4
39	Gold Mesh Structures with Controlled Aperture Ratios Fabricated by Reactive-monolayer-assisted Thermal Nanoimprint Lithography. Chemistry Letters, 2012, 41, 1291-1293.	1.3	5
40	Surface Segregation of 1 <i>H</i> ,1 <i>H</i> ,9 <i>H</i> -Hexadecafluorononyl Acrylate in Dimethacrylate Resin Films Cured by Exposure to Ultraviolet Light. Chemistry Letters, 2012, 41, 1294-1296.	1.3	6
41	Photochemically Grafted Polystyrene Layer Assisting Selective Au Electrodeposition. Langmuir, 2012, 28, 11646-11653.	3.5	11
42	A magnetically guided anti-cancer drug delivery system using porous FePt capsules. Biomaterials, 2012, 33, 1682-1687.	11.4	71
43	Morphological Changes in Ultraviolet-Nanoimprinted Resin Patterns Caused by Ultraviolet-Curable Resins Absorbing Pentafluoropropane. Japanese Journal of Applied Physics, 2012, 51, 06FJ05.	1.5	9
44	Silica/Ultraviolet-Cured Resin Nanocomposites for Replica Molds in Ultraviolet Nanoimprinting. Japanese Journal of Applied Physics, 2012, 51, 06FJ04.	1.5	2
45	Ferromagnetic FePt-Nanoparticles/Polycation Hybrid Capsules Designed for a Magnetically Guided Drug Delivery System. Langmuir, 2011, 27, 2923-2928.	3.5	48
46	Nanomedicine for Cancer: Lipid-Based Nanostructures for Drug Delivery and Monitoring. Accounts of Chemical Research, 2011, 44, 1080-1093.	15.6	144
47	Fabrication of Leftâ€Handed Metal Microcoil from Spiral Vessel of Vascular Plant. Advanced Materials, 2011, 23, 5509-5513.	21.0	75
48	Fluorescent Microscopy Proving Resin Adhesion to a Fluorinated Mold Surface Suppressed by Pentafluoropropane in Step-and-Repeat Ultraviolet Nanoimprinting. Japanese Journal of Applied Physics, 2011, 50, 06GK02.	1.5	18
49	Enhanced Durability of Antisticking Layers by Recoating a Silica Surface with Fluorinated Alkylsilane Derivatives by Chemical Vapor Surface Modification. Japanese Journal of Applied Physics, 2010, 49, 06GL12.	1.5	21
50	Photoreactive Chemisorbed Monolayer Suppressing Polymer Dewetting in Thermal Nanoimprint Lithography. Langmuir, 2009, 25, 6604-6606.	3.5	26
51	Dewetting Photocontrol of Poly(styrene) Thin Films by a Photocrosslinkable Monolayer in Thermal Nanoimprint Lithography. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2009, 22, 195-199.	0.3	8
52	Photo-induced Graft Reactions of 4-Methoxybenzophenone with Thermoplastic Polymers Designed for Reactive-Monolayer-Assisted Thermal Nanoimprint Lithography. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2009, 22, 205-211.	0.3	5
53	Reversible Photoswitching of Ferromagnetic FePt Nanoparticles at Room Temperature. Journal of the American Chemical Society, 2007, 129, 5538-5543.	13.7	70
54	Photochromism induced magnetization changes in Prussian Blue ultrathin films fabricated into the Langmuir–Blodgett films composed of an amphiphilic azobenzene and a deoxyribonucleic acid. Thin Solid Films, 2007, 515, 5476-5483.	1.8	7

MASARU NAKAGAWA

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55	Photocontrolled Magnetization of CdS-Modified Prussian Blue Nanoparticles. Journal of the American Chemical Society, 2006, 128, 10978-10982.	13.7	40
56	Pdâ^'Promoted Niâ^'P Electroless Deposition on a Hydrogen-Bonded Molecular Surface of a Supramolecular Fibrous Template. Chemistry of Materials, 2006, 18, 2152-2158.	6.7	33
57	Formation Process of Silverâ^Polypyrrole Coaxial Nanocables Synthesized by Redox Reaction between AgNO3and Pyrrole in the Presence of Poly(vinylpyrrolidone). Journal of Physical Chemistry B, 2005, 109, 18283-18288.	2.6	131
58	Photo-orientation of mesoporous silica materials via transfer from an azobenzene-containing polymer monolayerElectronic supplementary information (ESI) available: details on the experimental procedures and IR spectra around the siloxane stretching band. See http://www.rsc.org/suppdata/jm/b3/b310296c/. Journal of Materials Chemistry, 2004, 14, 328.	6.7	48
59	Selective Niâ^'P Electroless Plating on Photopatterned Cationic Adsorption Films Influenced by Alkyl Chain Lengths of Polyelectrolyte Adsorbates and Additive Surfactants. Langmuir, 2004, 20, 9844-9851.	3.5	17
60	Photoinduced Polar Transition of Substrate Surfaces by Photodegradable Cationic Adsorbate Monolayers. Langmuir, 2003, 19, 8769-8776.	3.5	5
61	Self-Assembly of Amphoteric Azopyridine Carboxylic Acids II: Aspect Ratio Control of Anisotropic Self-Assembled Fibers By Tuning theπ–πStacking Interaction. Bulletin of the Chemical Society of Japan, 2002, 75, 2533-2539.	3.2	19
62	Photo-orientation of Mesostructured Silica via Hierarchical Multiple Transfer. Chemistry of Materials, 2002, 14, 2842-2844.	6.7	65
63	Controlling Packing Structure of Hydrophobic Alkyl Tails of Monolayered Films of Ion-Paired Macrocyclic Amphiphiles as Studied by Sum-Frequency Generation Spectroscopy. Journal of Physical Chemistry B, 2002, 106, 3855-3859.	2.6	5
64	Photocontrol of liquid motion on an azobenzene monolayer. Journal of Materials Chemistry, 2002, 12, 2262-2269.	6.7	125
65	Photopatterning of self-assembled monolayers to generate aniline moieties. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2002, 204, 1-7.	4.7	17
66	Relationship between the ability to control liquid crystal alignment and wetting properties of calix[4]resorcinarene monolayers. Journal of Materials Chemistry, 2001, 11, 1563-1569.	6.7	37
67	Polarized Photoluminescence from Photopatterned Discotic Liquid Crystal Films. Chemistry of Materials, 2001, 13, 1434-1437.	6.7	50
68	Photochemical Behavior and the Ability to Control Liquid Crystal Alignment of Polymethacrylates with Styrylpyridine Side Chains. Macromolecular Chemistry and Physics, 2001, 202, 325-334.	2.2	15
69	Effect of Methylene Spacers in Poly(methacrylate)s Bearing Styrylpyridine Side Chains on the Ability to Control Liquid Crystal Alignment. Macromolecular Chemistry and Physics, 2001, 202, 354-361.	2.2	12
70	Photochromism of 4-cyanophenylazobenzene in liquid crystalline-coil AB diblock copolymers: the influence of microstructure. Macromolecular Rapid Communications, 2000, 21, 1309-1312.	3.9	34
71	Surface relief gratings generated by a photocrosslinkable polymer with styrylpyridine side chains. Applied Physics Letters, 2000, 76, 2520-2522.	3.3	31
72	Self-Assembly of Amphoteric Azopyridine Carboxylic Acids:Â Organized Structures and Macroscopic Organized Morphology Influenced by Heat, pH Change, and Light. Journal of the American Chemical Society, 2000, 122, 10997-11004.	13.7	102

MASARU NAKAGAWA

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73	Light-Driven Motion of Liquids on a Photoresponsive Surface. Science, 2000, 288, 1624-1626.	12.6	1,363
74	Photogeneration of pretilt angles of nematic liquid crystals by azobenzene-containing monolayers on poly(acrylic acid) films. Journal of Materials Chemistry, 2000, 10, 833-837.	6.7	12
75	Fibrous Self-Organization of an Azopyridine Carboxylic Acid through Head-to-Tail Hydrogen Bonds. Chemistry Letters, 1999, 28, 1205-1206.	1.3	7
76	Preparation of Monolayers of Ion-Paired Macrocyclic Amphiphiles to Estimate a Critical Free Space Required for Azobenzene Photoisomerization. Chemistry Letters, 1999, 28, 1209-1210.	1.3	17
77	Self-Assembled Monolayers Derived from Calix[4]resorcinarenes Exhibiting Excellent Desorption-Resistance and Their Applicability to Surface Energy Photocontrol. Chemistry Letters, 1999, 28, 349-350.	1.3	9
78	Photochemistry of Polymethacrylates with Styrylpyridine Side Chains and Their Photocontrollability of Liquid Crystal Alignment Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 1999, 12, 279-282.	0.3	6
79	Synthesis and charge transfer interactions of cyclobis(4,4′-azopyridinium-p-phenylene). Supramolecular Science, 1996, 3, 215-220.	0.7	4
80	High conducting Langmuir-Blodgett films comprising head-to-tail poly (3-hexylmiophene). Thin Solid Films, 1996, 273, 240-244.	1.8	31