## Masaru Nakagawa

List of Publications by Year in descending order

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MASARII NAKACAWA

#	Article	IF	CITATIONS
1	Light-Driven Motion of Liquids on a Photoresponsive Surface. Science, 2000, 288, 1624-1626.	12.6	1,363
2	Nanomedicine for Cancer: Lipid-Based Nanostructures for Drug Delivery and Monitoring. Accounts of Chemical Research, 2011, 44, 1080-1093.	15.6	144
3	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
4	Photocontrol of liquid motion on an azobenzene monolayer. Journal of Materials Chemistry, 2002, 12, 2262-2269.	6.7	125
5	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
6	Fabrication of Leftâ€Handed Metal Microcoil from Spiral Vessel of Vascular Plant. Advanced Materials, 2011, 23, 5509-5513.	21.0	75
7	A magnetically guided anti-cancer drug delivery system using porous FePt capsules. Biomaterials, 2012, 33, 1682-1687.	11.4	71
8	Reversible Photoswitching of Ferromagnetic FePt Nanoparticles at Room Temperature. Journal of the American Chemical Society, 2007, 129, 5538-5543.	13.7	70
9	Photo-orientation of Mesostructured Silica via Hierarchical Multiple Transfer. Chemistry of Materials, 2002, 14, 2842-2844.	6.7	65
10	Polarized Photoluminescence from Photopatterned Discotic Liquid Crystal Films. Chemistry of Materials, 2001, 13, 1434-1437.	6.7	50
11	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 <a href="http://www.rsc.org/suppdata/im/b3/b310296c/">http://www.rsc.org/suppdata/im/b3/b310296c/</a> . Journal of Materials Chemistry, 2004, 14, 328.	6.7	48
12	Ferromagnetic FePt-Nanoparticles/Polycation Hybrid Capsules Designed for a Magnetically Guided Drug Delivery System. Langmuir, 2011, 27, 2923-2928.	3.5	48
13	Innovative UV nanoimprint lithography using a condensable alternative chlorofluorocarbon atmosphere. Microelectronic Engineering, 2015, 133, 134-155.	2.4	45
14	Photocontrolled Magnetization of CdS-Modified Prussian Blue Nanoparticles. Journal of the American Chemical Society, 2006, 128, 10978-10982.	13.7	40
15	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
16	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
17	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
18	High conducting Langmuir-Blodgett films comprising head-to-tail poly (3-hexylmiophene). Thin Solid Films, 1996, 273, 240-244.	1.8	31

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19	Surface relief gratings generated by a photocrosslinkable polymer with styrylpyridine side chains. Applied Physics Letters, 2000, 76, 2520-2522.	3.3	31
20	Photoreactive Chemisorbed Monolayer Suppressing Polymer Dewetting in Thermal Nanoimprint Lithography. Langmuir, 2009, 25, 6604-6606.	3.5	26
21	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
22	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
23	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
24	Self-Assembly of Amphoteric Azopyridine Carboxylic Acids II: Aspect Ratio Control of Anisotropic Self-Assembled Fibers By Tuning theï€â€"ï€Stacking Interaction. Bulletin of the Chemical Society of Japan, 2002, 75, 2533-2539.	3.2	19
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	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
27	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
28	Photopatterning of self-assembled monolayers to generate aniline moieties. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2002, 204, 1-7.	4.7	17
29	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
30	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
31	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
32	Formation of 0.3-nm-high stepped polymer surface by thermal nanoimprinting. Applied Physics Express, 2014, 7, 055202.	2.4	15
33	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
34	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
35	Surface-Assisted Unidirectional Orientation of ZnO Nanorods Hybridized with Nematic Liquid Crystals. ACS Applied Materials & Interfaces, 2014, 6, 811-818.	8.0	14
36	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

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37	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
38	Selection of Diacrylate Monomers for Sub-15 nm Ultraviolet Nanoimprinting by Resonance Shear Measurement. Langmuir, 2018, 34, 9366-9375.	3.5	13
39	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
40	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
41	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
42	Photochemically Grafted Polystyrene Layer Assisting Selective Au Electrodeposition. Langmuir, 2012, 28, 11646-11653.	3.5	11
43	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
44	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
45	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
46	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
47	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
48	Super-resolution fluorescence imaging of nanoimprinted polymer patterns by selective fluorophore adsorption combined with redox switching. AIP Advances, 2013, 3, 102128.	1.3	9
49	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
50	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
51	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
52	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
53	Fibrous Self-Organization of an Azopyridine Carboxylic Acid through Head-to-Tail Hydrogen Bonds. Chemistry Letters, 1999, 28, 1205-1206.	1.3	7
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

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55	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
56	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
57	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
58	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
59	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
60	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
61	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
62	Photoinduced Polar Transition of Substrate Surfaces by Photodegradable Cationic Adsorbate Monolayers. Langmuir, 2003, 19, 8769-8776.	3.5	5
63	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
64	Gold Mesh Structures with Controlled Aperture Ratios Fabricated by Reactive-monolayer-assisted Thermal Nanoimprint Lithography. Chemistry Letters, 2012, 41, 1291-1293.	1.3	5
65	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
66	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
67	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
68	Synthesis and charge transfer interactions of cyclobis(4,4′-azopyridinium-p-phenylene). Supramolecular Science, 1996, 3, 215-220.	0.7	4
69	Innovative Nanoimprint Lithography Using PFP Condensable Gas. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2013, 26, 87-96.	0.3	4
70	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
71	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
72	Surface forces between hydrophilic silica surfaces in a moisture-sensitive oleophilic diacrylate monomer liquid. AIP Advances, 2018, 8, 025122.	1.3	2

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73	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
74	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
75	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
76	Silica/Ultraviolet-Cured Resin Nanocomposites for Replica Molds in Ultraviolet Nanoimprinting. Japanese Journal of Applied Physics, 2012, 51, 06FJ04.	1.5	2
77	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
78	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
79	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	О
80	"Print-and-Imprint―MethodÂ: Novel Nanoimprint Technology Based on Laser-Drilled Screen Printing. Vacuum and Surface Science, 2020, 63, 592-597.	0.1	0