Hiroshi Yoshida

List of Publications by Year
in descending order

56	1,498	304602 22	315616 38
papers	citations	h-index	g-index

56	56	56	1013
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Chemical Patterns for Directed Self-Assembly of Lamellae-Forming Block Copolymers with Density Multiplication of Features. Macromolecules, 2013, 46, 1415-1424.	2.2	201
2	Directed Self-Assembly of Diblock Copolymer Thin Films on Chemically-Patterned Substrates for Defect-Free Nano-Patterning. Macromolecules, 2008, 41, 9267-9276.	2.2	106
3	Reentrant Solid-Liquid Transition in Ionic Colloidal Dispersions by Varying Particle Charge Density. Physical Review Letters, 1998, 80, 5806-5809.	2.9	103
4	Directed Self-Assembly of POSS Containing Block Copolymer on Lithographically Defined Chemical Template with Morphology Control by Solvent Vapor. Macromolecules, 2012, 45, 292-304.	2.2	91
5	Void structure and vaporâ€“liquid condensation in dilute deionized colloidal dispersions. Journal of Chemical Physics, 1995, 103, 10146-10151.	1.2	73
6	Transitions between Ordered and Disordered Phases and Their Coexistence in Dilute Ionic Colloidal Dispersions. Langmuir, 1999, 15, 2684-2702.	1.6	71
7	Topcoat Approaches for Directed Self-Assembly of Strongly Segregating Block Copolymer Thin Films. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2013, 26, 55-58.	0.1	52
8	Nine-fold density multiplication of hcp lattice pattern by directed self-assembly of block copolymer. Polymer, 2009, 50, 4250-4256.	1.8	45
9	Paradoxes of the Repulsion-Only Assumption. Accounts of Chemical Research, 1996, 29, 3-5.	7.6	42
10	Analysis on Deterioration Mechanism of Release Layer in Nanoimprint Process. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2007, 20, 545-548.	0.1	42
11	Control of the Microdomain Orientation in Block Copolymer Thin Films with Homopolymers for Lithographic Application. Langmuir, 2007, 23, 6404-6410.	1.6	41
12	Nonbulk Complex Structures in Thin Films of Symmetric Block Copolymers on Chemically Nanopatterned Surfaces. Macromolecules, 2012, 45, 3986-3992.	2.2	40
13	Localized ordered structure in polymer latex suspensions as studied by a confocal laser scanning microscope. Physical Review B, 1991, 44, 435-438.	1.1	34
14	Morphology of Lamellae-Forming Block Copolymer Films between Two Orthogonal Chemically Nanopatterned Striped Surfaces. Physical Review Letters, 2012, 108, 065502.	2.9	34
15	Directed Assembly of Block Copolymers in Thin to Thick Films. Macromolecules, 2013, 46, 3915-3921.	2.2	34
16	Inhomogeneity of solute distribution in ionic systems. Faraday Discussions of the Chemical Society, 1990, 90, 153.	2.2	31
17	Ordering of latex particles and ionic polymers in solutions. Langmuir, 1990, 6, 296-302.	1.6	31
18	Novel Crystallization Process in Dilute Ionic Colloids. Langmuir, 1998, 14, 569-574.	1.6	29

#	Article	IF	Citations
19	Glass-modified stress waves for adhesion measurement of ultra thin films for device applications. Journal of the Mechanics and Physics of Solids, 2003, 51, 1395-1412.	2.3	26
20	Colloidal crystal growth. Journal of the Chemical Society, Faraday Transactions, 1991, 87, 371.	1.7	24
21	ESR Study of Irradiated Pyridine. Journal of Chemical Physics, 1966, 45, 2894-2897.	1.2	23
22	Directed Self-Assembly of Cage Silsesquioxane Containing Block Copolymers via Graphoepitaxy Techniques. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2010, 23, 155-159.	0.1	23
23	Reentrant Orderâ˜Disorder Transition in Ionic Colloidal Dispersions by Varying Particle Charge Densityâ€. Langmuir, 1999, 15, 4198-4202.	1.6	22
24	Observation of Fine Structure in Bicontinuous Phase-Separated Domains of a Polymer Blend by Laser Scanning Confocal Microscopy. Macromolecules, 2001, 34, 5186-5191.	2.2	22
25	Formation of longâ€range stripe patterns with subâ€10â€nm halfâ€pitch from directed selfâ€assembly of block copolymer. Journal of Polymer Science, Part B: Polymer Physics, 2010, 48, 2297-2301.	2.4	22
26	ESR Spectra of Trapped Electrons in Î³â€irradiated 3â€Methylpentane. Journal of Chemical Physics, 1967, 46, 810-811.	1.2	21
27	Ordering Cylindrical Microdomains for Binary Blends of Block Copolymers with Graphoepitaxy. Macromolecular Rapid Communications, 2007, 28, 2137-2144.	2.0	20
28	Effect of oxygen addition to an argon plasma on etching selectivity of poly(methyl methacrylate) to polystyrene. Journal of Micro/ Nanolithography, MEMS, and MOEMS, 2013, 12, 041309.	1.0	20
29	Two-dimensional Fourier analysis and quasielastic light-scattering measurements of colloid crystals. Physical Review B, 1988, 38, 10852-10859.	1.1	18
30	Microscopic observation and quasielastic light-scattering measurements of colloid crystals. Determination of the radial distribution function and structure factor for the two-state structure. Journal of the American Chemical Society, 1990, 112, 592-596.	6.6	16
31	Directed Self-assembly with Density Mmultiplication of Cage Silsesquioxane-containing Bblock Copolymer via Controlled Solvent Annealing. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2011, 24, 577-580.	0.1	15
32	Study of the Internal Structure of Latex Dispersions by Laser Scanning Microscope. Confirmation of Void Structure. Chemistry Letters, 1992, 21, 2081-2084.	0.7	14
33	Cross-sectional Imaging of Block Copolymer Thin Films on Chemically Patterned Surfaces. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2010, 23, 149-154.	0.1	14
34	Slowing the translocation of single-stranded DNA by using nano-cylindrical passage self-assembled by amphiphilic block copolymers. Nanoscale, 2016, 8, 18270-18276.	2.8	13
35	Density Multiplication by Directed Self-assembly of Block Copolymer Binary Blends. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2009, 22, 229-233.	0.1	11
36	Electron spin resonance study of radiation-induced solid-state polymerization of conjugated dienes. Journal of Polymer Science Part A-1, Polymer Chemistry, 1966, 4, 2710-2713.	0.7	10

#	Article	IF	Citations
37	Restricted Motion of a Particle Trapped inside a Void in a Colloidal Dispersion. Langmuir, 1995, 11, 2853-2855.	1.6	10
38	ESR Study on Irradiated Pyridine: Effect of Iodine Addition. Journal of Chemical Physics, 1967, 46, 2808-2810.	1.2	7
39	Life span of a local structure in colloidal suspensions. Journal of the American Chemical Society, 1989, 111, 2347-2348.	6.6	7
40	Advanced CD-SEM metrology for pattern roughness and local placement of lamellar DSA. Proceedings of SPIE, 2014, , .	0.8	7
41	Growth of local structure in colloidal suspensions. Physical Review B, 1990, 41, 5403-5406.	1.1	6
42	Selective and Anisotropic Copper Electroplating Using Copper Overburden with an Inhibiting Additive. Electrochemical and Solid-State Letters, 2010, 13, D23.	2.2	6
43	Design of Thermoresponsive Polymers Toward Antibody Purification. ACS Applied Polymer Materials, 2019, 1, 1925-1929.	2.0	6
44	Inhomogeneous distribution of charged colloidal particles studied by confocal laser scanning microscopy. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2000, 174, 55-77.	2.3	3
45	Improved lithography by directed self-assembly of ultra-high-density patterns. SPIE Newsroom, 0, , .	0.1	3
46	Tailoring Microdomain Orientation in Block Copolymer Thin Films for Lithographic Application. Materials Research Society Symposia Proceedings, 2006, 961, 1.	0.1	2
47	Advanced trench filling process by selective copper electrodeposition for ultra fine printed wiring board fabrication. , 2010, , .		2
48	Reducing hole-size variation and defect ratio after pattern transfer by using self-assembled polymer with spherical structure. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2013, 31, 041807.	0.6	2
49	Effect of Free Radicals on the Proton Resonance of Irradiated Polymers. Journal of the Physical Society of Japan, 1962, 17, 581-581.	0.7	1
50	Line edge roughness measurement technique for fingerprint pattern in block copolymer thin film. , 2013, , .		1
51	Analyses of Morphologies in Block Copolymer Thin Films by Grazing Incidence Small Angle X-ray Scattering. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2014, 27, 751-755.	0.1	1
52	P-23: Thin Durable Metal Substrates for High-Resolution a-Si TFT Active Matrix Displays. Digest of Technical Papers SID International Symposium, 2006, 37, 266.	0.1	0
53	Alignment of Cylindrical Microdomains on a Grating Substrate by Binary Blends of Polystyrene-Poly(methyl methacrylate). Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2007, 20, 505-510.	0.1	0
54	Silicon Mold Etching with Hard Mask Stack Using Spherical Structure of Block Copolymer for Bit-Patterned Media with 2.8 Tbit/in.2. Japanese Journal of Applied Physics, 2013, 52, 086201.	0.8	0

#	Article	IF	Citations
55	Corrosion Resistance of Next Generation Magnetic Disk (2). Zairyo To Kankyo/ Corrosion Engineering, 2013, 62, 52-55.	0.0	0
56	Creation of Different Types of Patterns in the Selectiveâ€“Area of Thin Films for Block Copolymer Containing Silsesquioxanes. Science of Advanced Materials, 2015, 7, 969-973.	0.1	0