Norihisa Akamatsu

List of Publications by Year
in descending order

35	575	759233	610901
papers	citations	12 h-index	24 g-index

35	35	35	678
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Dipalladium Catalyst for Olefin Polymerization: Introduction of Acrylate Units into the Main Chain of Branched Polyethylene. Angewandte Chemie - International Edition, 2014, 53, 9246-9250.	13.8	122
2	Suppressing molecular vibrations in organic semiconductors by inducing strain. Nature Communications, 2016, 7, 11156.	12.8	105
3	Scanning wave photopolymerization enables dye-free alignment patterning of liquid crystals. Science Advances, 2017, 3, e1701610.	10.3	50
4	Analysis of Functionalization Degree of Single-Walled Carbon Nanotubes Having Various Substituents. Journal of the American Chemical Society, 2012, 134, 18101-18108.	13.7	35
5	Facile strain analysis of largely bending films by a surface-labelled grating method. Scientific Reports, 2014, 4, 5377.	3.3	33
6	Thermo-, photo-, and mechano-responsive liquid crystal networks enable tunable photonic crystals. Soft Matter, 2017, 13, 7486-7491.	2.7	26
7	Mechanoâ€Optical Sensors Fabricated with Multilayered Liquid Crystal Elastomers Exhibiting Tunable Deformation Recovery. Advanced Functional Materials, 2021, 31, 2104702.	14.9	25
8	Nanoscale Analysis of Surface Bending Strain in Film Substrates for Preventing Fracture in Flexible Electronic Devices. Advanced Materials Interfaces, 2021, 8, 2001662.	3.7	20
9	Single-step creation of polarization gratings by scanning wave photopolymerization with unpolarized light. Journal of the Optical Society of America B: Optical Physics, 2019, 36, D112.	2.1	16
10	Unpolarized light-induced alignment of azobenzene by scanning wave photopolymerization. Polymer Journal, 2018, 50, 753-759.	2.7	14
11	Direct fabrication of a q-plate array by scanning wave photopolymerization. Journal of the Optical Society of America B: Optical Physics, 2019, 36, D47.	2.1	14
12	Experimental and theoretical analyses of curvature and surface strain in bent polymer films. Applied Physics Express, 2020, 13, 056502.	2.4	13
13	A Deformable Low-Threshold Optical Limiter with Oligothiophene-Doped Liquid Crystals. ACS Applied Materials & Interfaces, 2021, 13, 23049-23056.	8.0	12
14	Effect of surface treatment on molecular reorientation of polymer-stabilized liquid crystals doped with oligothiophene. Polymer Journal, 2017, 49, 209-214.	2.7	11
15	Environmentally Stable Chiral-Nematic Liquid-Crystal Elastomers with Mechano-Optical Properties. Applied Sciences (Switzerland), 2021, 11, 5037.	2.5	9
16	Simultaneous formation behaviour of surface structures and molecular alignment by patterned photopolymerisation. Liquid Crystals, 2019, 46, 1995-2002.	2.2	7
17	Effect of surface treatment on molecular alignment behavior by scanning wave photopolymerization. Applied Physics Express, 2019, 12, 041004.	2.4	7
18	Photoplasticization Behavior and Photoinduced Pressure-Sensitive Adhesion Properties of Various Polymers Containing an Azobenzene-Doped Liquid Crystal. Bulletin of the Chemical Society of Japan, 2020, 93, 1588-1594.	3.2	7

#	Article	IF	Citations
19	Quantitative analysis of bending hysteresis by real-time monitoring of curvature in flexible polymeric films. Soft Matter, 2021, 17, 4040-4046.	2.7	7
20	Effect of Hardness on Surface Strain of PDMS Films Detected by a Surface Labeled Grating Method. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2018, 31, 523-526.	0.3	6
21	Wideband reflection wavelength tuning by bending of cholesteric liquid crystal elastomer films. Journal of Applied Physics, 2021, 129, .	2.5	6
22	Effect of Crosslinkers on Optical and Mechanical Behavior of Chiral Nematic Liquid Crystal Elastomers. Molecules, 2021, 26, 6193.	3.8	5
23	Molecular reorientation behavior of oligothiophene-doped polymer-stabilized liquid crystals irradiated with collimated laser beam. Molecular Crystals and Liquid Crystals, 2020, 713, 46-54.	0.9	5
24	Out-of-plane Strain Measurement of A Silicone Elastomer by means of A Cholesteric Liquid Crystal Sensor. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2020, 33, 81-84.	0.3	4
25	Photoresponsive Liquid-Crystalline Polymer Films Bilayered with an Inverse Opal Structure. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2016, 29, 145-148.	0.3	3
26	Nonlinear Molecular Reorientation of Polymer-Stabilized Dye-Doped Liquid Crystals by Depolarized Laser Beam. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2020, 33, 77-80.	0.3	3
27	Neutral Mechanical Plane Shifting in Bending Elastomer Film Revealed by Quantification of Internal Strain. Advanced Engineering Materials, 2022, 24, 2101041.	3.5	3
28	Validation of theoretical analysis of surface bending strain in polymer films by surface-labeled grating method. AIP Advances, 2022, 12, 015324.	1.3	3
29	Liquid-crystalline polymer holograms for high-density optical storage and photomechanical analysis. Proceedings of SPIE, 2012, , .	0.8	1
30	29â€1: Invited Paper: Analysis of Dynamic Strain on Foldable Devices. Digest of Technical Papers SID International Symposium, 2020, 51, 417-420.	0.3	1
31	Effect of the Concentration Gradient on Molecular Alignment by Scanning Wave Photopolymerization. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2020, 33, 291-294.	0.3	1
32	Liquid crystal polymer networks directed by scanning wave photopolymerization of oxetane monomer and crosslinker. Molecular Crystals and Liquid Crystals, 2020, 713, 37-45.	0.9	1
33	Surface Bending Strain: Nanoscale Analysis of Surface Bending Strain in Film Substrates for Preventing Fracture in Flexible Electronic Devices (Adv. Mater. Interfaces 5/2021). Advanced Materials Interfaces, 2021, 8, 2170026.	3.7	0
34	Mechanoâ€Optical Sensors Fabricated with Multilayered Liquid Crystal Elastomers Exhibiting Tunable Deformation Recovery (Adv. Funct. Mater. 40/2021). Advanced Functional Materials, 2021, 31, 2170298.	14.9	0
35	Cooperative Molecular Alignment Process Enabled by Scanning Wave Photopolymerization. , 2020, , 375-387.		0