

# Norihisa Akamatsu

## List of Publications by Year in descending order

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Version: 2024-02-01

35  
papers

575  
citations

759233

12  
h-index

610901

24  
g-index

35  
all docs

35  
docs citations

35  
times ranked

678  
citing authors

#	ARTICLE	IF	CITATIONS
1	Neutral Mechanical Plane Shifting in Bending Elastomer Film Revealed by Quantification of Internal Strain. <i>Advanced Engineering Materials</i> , 2022, 24, 2101041.	3.5	3
2	Validation of theoretical analysis of surface bending strain in polymer films by surface-labeled grating method. <i>AIP Advances</i> , 2022, 12, 015324.	1.3	3
3	Nanoscale Analysis of Surface Bending Strain in Film Substrates for Preventing Fracture in Flexible Electronic Devices. <i>Advanced Materials Interfaces</i> , 2021, 8, 2001662.	3.7	20
4	Quantitative analysis of bending hysteresis by real-time monitoring of curvature in flexible polymeric films. <i>Soft Matter</i> , 2021, 17, 4040-4046.	2.7	7
5	Surface Bending Strain: Nanoscale Analysis of Surface Bending Strain in Film Substrates for Preventing Fracture in Flexible Electronic Devices ( <i>Adv. Mater. Interfaces</i> 5/2021). <i>Advanced Materials Interfaces</i> , 2021, 8, 2170026.	3.7	0
6	Wideband reflection wavelength tuning by bending of cholesteric liquid crystal elastomer films. <i>Journal of Applied Physics</i> , 2021, 129, .	2.5	6
7	A Deformable Low-Threshold Optical Limiter with Oligothiophene-Doped Liquid Crystals. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 23049-23056.	8.0	12
8	Environmentally Stable Chiral-Nematic Liquid-Crystal Elastomers with Mechano-Optical Properties. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 5037.	2.5	9
9	Mechano-Optical Sensors Fabricated with Multilayered Liquid Crystal Elastomers Exhibiting Tunable Deformation Recovery. <i>Advanced Functional Materials</i> , 2021, 31, 2104702.	14.9	25
10	Mechano-Optical Sensors Fabricated with Multilayered Liquid Crystal Elastomers Exhibiting Tunable Deformation Recovery ( <i>Adv. Funct. Mater.</i> 40/2021). <i>Advanced Functional Materials</i> , 2021, 31, 2170298.	14.9	0
11	Effect of Crosslinkers on Optical and Mechanical Behavior of Chiral Nematic Liquid Crystal Elastomers. <i>Molecules</i> , 2021, 26, 6193.	3.8	5
12	Photoplasticization Behavior and Photoinduced Pressure-Sensitive Adhesion Properties of Various Polymers Containing an Azobenzene-Doped Liquid Crystal. <i>Bulletin of the Chemical Society of Japan</i> , 2020, 93, 1588-1594.	3.2	7
13	29 <sup>th</sup> : Invited Paper: Analysis of Dynamic Strain on Foldable Devices. <i>Digest of Technical Papers SID International Symposium</i> , 2020, 51, 417-420.	0.3	1
14	Experimental and theoretical analyses of curvature and surface strain in bent polymer films. <i>Applied Physics Express</i> , 2020, 13, 056502.	2.4	13
15	Nonlinear Molecular Reorientation of Polymer-Stabilized Dye-Doped Liquid Crystals by Depolarized Laser Beam. <i>Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi]</i> , 2020, 33, 77-80.	0.3	3
16	Out-of-plane Strain Measurement of A Silicone Elastomer by means of A Cholesteric Liquid Crystal Sensor. <i>Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi]</i> , 2020, 33, 81-84.	0.3	4
17	Molecular reorientation behavior of oligothiophene-doped polymer-stabilized liquid crystals irradiated with collimated laser beam. <i>Molecular Crystals and Liquid Crystals</i> , 2020, 713, 46-54.	0.9	5
18	Cooperative Molecular Alignment Process Enabled by Scanning Wave Photopolymerization. , 2020, , 375-387.		0

#	ARTICLE	IF	CITATIONS
19	Effect of the Concentration Gradient on Molecular Alignment by Scanning Wave Photopolymerization. <i>Journal of Photopolymer Science and Technology</i> = [Fotoporima Konwakai Shi], 2020, 33, 291-294.	0.3	1
20	Liquid crystal polymer networks directed by scanning wave photopolymerization of oxetane monomer and crosslinker. <i>Molecular Crystals and Liquid Crystals</i> , 2020, 713, 37-45.	0.9	1
21	Simultaneous formation behaviour of surface structures and molecular alignment by patterned photopolymerisation. <i>Liquid Crystals</i> , 2019, 46, 1995-2002.	2.2	7
22	Effect of surface treatment on molecular alignment behavior by scanning wave photopolymerization. <i>Applied Physics Express</i> , 2019, 12, 041004.	2.4	7
23	Direct fabrication of a q-plate array by scanning wave photopolymerization. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2019, 36, D47.	2.1	14
24	Single-step creation of polarization gratings by scanning wave photopolymerization with unpolarized light. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2019, 36, D112.	2.1	16
25	Effect of Hardness on Surface Strain of PDMS Films Detected by a Surface Labeled Grating Method. <i>Journal of Photopolymer Science and Technology</i> = [Fotoporima Konwakai Shi], 2018, 31, 523-526.	0.3	6
26	Unpolarized light-induced alignment of azobenzene by scanning wave photopolymerization. <i>Polymer Journal</i> , 2018, 50, 753-759.	2.7	14
27	Thermo-, photo-, and mechano-responsive liquid crystal networks enable tunable photonic crystals. <i>Soft Matter</i> , 2017, 13, 7486-7491.	2.7	26
28	Scanning wave photopolymerization enables dye-free alignment patterning of liquid crystals. <i>Science Advances</i> , 2017, 3, e1701610.	10.3	50
29	Effect of surface treatment on molecular reorientation of polymer-stabilized liquid crystals doped with oligothiophene. <i>Polymer Journal</i> , 2017, 49, 209-214.	2.7	11
30	Photoresponsive Liquid-Crystalline Polymer Films Bilayered with an Inverse Opal Structure. <i>Journal of Photopolymer Science and Technology</i> = [Fotoporima Konwakai Shi], 2016, 29, 145-148.	0.3	3
31	Suppressing molecular vibrations in organic semiconductors by inducing strain. <i>Nature Communications</i> , 2016, 7, 11156.	12.8	105
32	Dipalladium Catalyst for Olefin Polymerization: Introduction of Acrylate Units into the Main Chain of Branched Polyethylene. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 9246-9250.	13.8	122
33	Facile strain analysis of largely bending films by a surface-labelled grating method. <i>Scientific Reports</i> , 2014, 4, 5377.	3.3	33
34	Liquid-crystalline polymer holograms for high-density optical storage and photomechanical analysis. <i>Proceedings of SPIE</i> , 2012, , .	0.8	1
35	Analysis of Functionalization Degree of Single-Walled Carbon Nanotubes Having Various Substituents. <i>Journal of the American Chemical Society</i> , 2012, 134, 18101-18108.	13.7	35