

Akira Emoto

List of Publications by Year in descending order

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28
papers

373
citations

1040056

9
h-index

794594

19
g-index

28
all docs

28
docs citations

28
times ranked

224
citing authors

#	ARTICLE	IF	CITATIONS
1	Highly stable polarization gratings in photocrosslinkable polymer liquid crystals. <i>Journal of Applied Physics</i> , 2003, 94, 1298-1303.	2.5	118
2	Ultrasound liquid crystal lens. <i>Applied Physics Letters</i> , 2018, 112, .	3.3	29
3	Vector holograms using radially polarized light. <i>Applied Physics Letters</i> , 2009, 94, .	3.3	27
4	Form birefringence in intrinsic birefringent media possessing a subwavelength structure. <i>Applied Optics</i> , 2010, 49, 4355.	2.1	26
5	Transmission and reflection phase gratings formed in azo-dye-doped chiral nematic liquid crystals. <i>Applied Physics Letters</i> , 2009, 94, 023303.	3.3	20
6	Control of liquid crystal molecular orientation using ultrasound vibration. <i>Applied Physics Letters</i> , 2016, 108, .	3.3	20
7	Simple detection of light polarization by using crossed polarization gratings. <i>Journal of Applied Physics</i> , 2006, 100, 063502.	2.5	19
8	Reconstruction of polarized optical images in two- and three-dimensional vector holograms. <i>Journal of Applied Physics</i> , 2009, 106, 083109.	2.5	12
9	Large birefringence and polarization holographic gratings formed in photocross-linkable polymer liquid crystals comprising bistolane mesogenic side groups. <i>Journal of Applied Physics</i> , 2009, 106, 073505.	2.5	10
10	Holographic Recording in Photoreactive Monomer/Polymer Composites. <i>Japanese Journal of Applied Physics</i> , 2005, 44, 1781-1786.	1.5	9
11	Ultrasound liquid crystal lens with a variable focus in the radial direction for image stabilization. <i>Applied Optics</i> , 2021, 60, 10365.	1.8	9
12	Ag-coated submicron particles of polystyrene formed by dewetting process and their application in multi-functional biosensor-chips. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018, 558, 171-178.	4.7	8
13	Surface Relief Formation with Molecular Orientation in Photoreactive Liquid Crystalline Polymer Film. <i>Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi]</i> , 2006, 19, 151-156.	0.3	7
14	Dichroic reflection in specular direction of Au-coated anisotropic hemispherical structure arrays based on monolayer of subwavelength-scale polystyrene spheres. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2013, 429, 106-111.	4.7	7
15	Periodic pattern of liquid crystal molecular orientation induced by ultrasound vibrations. <i>Applied Physics Letters</i> , 2017, 111, .	3.3	7
16	Relationship between liquid crystal layer thickness and variable-focusing characteristics of an ultrasound liquid crystal lens. <i>Japanese Journal of Applied Physics</i> , 2022, 61, SG1013.	1.5	7
17	One- and two-dimensional anisotropic diffractive gratings formed by periodic orthogonal molecular alignment in a hydrogen-bonded liquid crystalline polymer. <i>Journal of Applied Physics</i> , 2009, 105, 103514.	2.5	6
18	Fabrication of Submicrometer Pores with an Outer Shell Using Modified Poly(vinyl alcohol) and the Molecular or Particle Collection Effect. <i>Langmuir</i> , 2013, 29, 12601-12607.	3.5	6

#	ARTICLE	IF	CITATIONS
19	Tailoring adhesive forces between poly(dimethylsiloxane) and glass substrates using poly(vinyl) Tj ETQq1 1 0.784314.rgBT /Overlock 10	2.6	6
20	Chronological Investigations of Ramanâ€Nath Diffraction Grating Inscribed by Direct Laser Writing in Photoreactive Monomer Base Mixtures. Japanese Journal of Applied Physics, 2010, 49, 122502.	1.5	4
21	Fabrication of high-density array of barnacle-like porous structures using polystyrene colloidal particle monolayer and poly(vinyl alcohol) coating. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2017, 522, 408-415.	4.7	4
22	Two-dimensional patterning of colloidal crystals by means of lateral autocloning in edge-patterned cells. Journal of Applied Physics, 2009, 105, 123506.	2.5	3
23	Optical evaluation of a double-layered ultrasound liquid crystal lens. Journal of Applied Physics, 2022, 131, .	2.5	3
24	Orientalional photoreactive effects in nematic liquid crystals on silver sulfide thin films. Applied Physics Letters, 2010, 97, 041919.	3.3	2
25	Photoinduced Reorientation and Polarization Holography of Photoreactive Polymer Liquid Crystals with Bistolane Side Groups. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2010, 23, 343-348.	0.3	1
26	Fabrication of Modified Random Phase Masks with Phase Modulation Elements Exhibiting Gaussian Profiles Using Molecular Migration under Photopolymerization. Photonics, 2019, 6, 62.	2.0	1
27	An on-demand bench-top fabrication process for fluidic chips based on cross-diffusion through photopolymerization. Biomicrofluidics, 2020, 14, 044104.	2.4	1
28	Decimating Spatial Frequency Components in Periodically Modulated Nanoscale Surface Structures for Sensing of Ambient Refractive Index Changes. ACS Omega, 2020, 5, 3513-3521.	3.5	1