

Tomoyuki Sasaki

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Birefringence Control of Photoalignable Liquid Crystalline Polymers Based on an <i>In Situ</i> Exchange of Oriented Mesogenic Side Groups. <i>Chemistry Letters</i> , 2022, 51, 91-93.	1.3	3
2	Polarized Fluorescence of <i>N</i> -Salicylideneaniline Derivatives Formed by <i>In Situ</i> Exchange from <i>N</i> -Benzylideneaniline Side Groups in Photoaligned Liquid Crystalline Copolymer Films. <i>Langmuir</i> , 2022, 38, 2862-2871.	3.5	4
3	Highly Birefringent Terahertz Metasurfaces Based on a Liquid-Crystal-Embedded Metal Mesh. <i>IEEE Photonics Journal</i> , 2022, 14, 1-6.	2.0	3
4	Photoinduced Reorientation and Photofunctional Control of Liquid Crystalline Copolymers with <i>In Situ</i> -Formed <i>N</i> -Benzylideneaniline Derivative Side Groups. <i>Langmuir</i> , 2021, 37, 1164-1172.	3.5	8
5	Birefringent Control of Photo-Oriented Polymeric Films by <i>In Situ</i> Exchange of Functional Moieties. <i>Journal of Photopolymer Science and Technology</i> = [Fotoporima Konwakai Shi], 2021, 34, 511-515.	0.3	1
6	Subwavelength liquid crystal gratings for polarization-independent phase shifts in the terahertz spectral range. <i>Optical Materials Express</i> , 2020, 10, 240.	3.0	7
7	Mode demultiplexing of vector beams using crossed-fork-shaped polarization grating fabricated by photoalignment of photo-crosslinkable liquid crystal polymer. <i>Applied Physics Letters</i> , 2019, 115, .	3.3	5
8	Incident-Angle-Dependence-Relaxed Polarization Grating formed using Polymer Liquid Crystal Exhibiting Biaxial Optical Anisotropy. , 2019, , .		0
9	Mode detection of vector beams by use of crossed-fork-shaped polarization grating fabricated by photoalignment of photo-crosslinkable polymer liquid crystal. , 2019, , .		0
10	Active Terahertz Polarization Converter Using a Liquid Crystal-Embedded Metal Mesh. <i>IEEE Photonics Journal</i> , 2019, 11, 1-7.	2.0	15
11	Homogeneous Photoalignment of Liquid Crystals without Precoated Alignment Layers. <i>Journal of Photopolymer Science and Technology</i> = [Fotoporima Konwakai Shi], 2019, 32, 549-552.	0.3	0
12	Liquid crystal cells with subwavelength metallic gratings for transmissive terahertz elements with electrical tunability. <i>Optics Communications</i> , 2019, 431, 63-67.	2.1	12
13	Optical control of polarized terahertz waves using dye-doped nematic liquid crystals. <i>AIP Advances</i> , 2018, 8, 115326.	1.3	5
14	Effects of slant angle of metallic fish-scale structure on polarization conversion in the terahertz spectral range. <i>Applied Physics A: Materials Science and Processing</i> , 2018, 124, 1.	2.3	3
15	Fabrication of fine metal structures based on laser drawing method using interference pattern from co-propagating optical vortices. <i>Applied Physics Letters</i> , 2018, 112, 021106.	3.3	2
16	Applied voltage response of a cholesteric liquid crystal cell observed by simultaneous measurement of phase and reflection changes based on optical interferometry. <i>Japanese Journal of Applied Physics</i> , 2018, 57, 091701.	1.5	3
17	Tunable dichroic polarization beam splitter created by one-step holographic photoalignment using four-beam polarization interferometry. <i>Journal of Applied Physics</i> , 2017, 121, 013102.	2.5	18
18	Twisted nematic liquid crystal cells with rubbed poly(3,4-ethylenedioxythiophene)/poly(styrenesulfonate) films for active polarization control of terahertz waves. <i>Journal of Applied Physics</i> , 2017, 121, .	2.5	20

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19	Influence of alkylene spacer length on photoinduced orientation of liquid crystalline polymer with <i>N</i> -benzylideneaniline side groups. <i>Molecular Crystals and Liquid Crystals</i> , 2017, 644, 61-68.	0.9	1
20	Fabrication of fine metal structure by using interference pattern of copropagating optical vortices and lift-off process. , 2017, , .		0
21	Polarization axis-selective realignment of a photoreactive liquid crystalline composite with homogeneous alignment. <i>Applied Physics A: Materials Science and Processing</i> , 2016, 122, 1.	2.3	3
22	Thermally controllable chiral nematic vector gratings with holographically regulated photoalignment films. <i>Applied Physics B: Lasers and Optics</i> , 2016, 122, 1.	2.2	2
23	Photoalignment and resulting holographic vector grating formation in composites of low molecular weight liquid crystals and photoreactive liquid crystalline polymers. <i>Applied Physics B: Lasers and Optics</i> , 2015, 120, 217-222.	2.2	5
24	Universal polarization terahertz phase controllers using randomly aligned liquid crystal cells with graphene electrodes. <i>Optics Letters</i> , 2015, 40, 1544.	3.3	28
25	Merged vector gratings recorded in a photocrosslinkable polymer liquid crystal film for polarimetry. <i>Journal of Applied Physics</i> , 2014, 115, .	2.5	8
26	Temporal characteristics of polarization holographic gratings formed in a photosensitive polymeric film containing <i>N</i> -benzylideneaniline derivative side groups. <i>Journal of Applied Physics</i> , 2014, 115, 153102.	2.5	2
27	Blazed vector gratings fabricated using photosensitive polymer liquid crystals and control of polarization diffraction. <i>Applied Physics B: Lasers and Optics</i> , 2014, 114, 567-571.	2.2	0
28	Effects of photocrosslinking on photorefractive properties in polymer-liquid crystal composites. <i>Applied Physics A: Materials Science and Processing</i> , 2014, 114, 1353-1360.	2.3	1
29	Temporal formation of optical anisotropy and surface relief during polarization holographic recording in polymethylmethacrylate with azobenzene side groups. <i>Applied Physics B: Lasers and Optics</i> , 2014, 114, 373-380.	2.2	12
30	Reorientation of photoreactive liquid crystalline polymer pattern fabricated by hybrid nanoimprinting. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2013, 31, 06FB04.	1.2	0
31	Photoinduced reorientation and polarization holography in a new photopolymer with 4-methoxy- <i>N</i> -benzylideneaniline side groups. <i>APL Materials</i> , 2013, 1, .	5.1	31
32	Comparison Molecular Orientation of Photoinduced Liquid Crystalline Polymer induced by Thermal Nanoimprinting to that by Graphoepitaxy. <i>Journal of Photopolymer Science and Technology</i> = [Fotoporima Konwakai Shi], 2013, 26, 65-68.	0.3	0
33	Molecular Orientation of Photoinduced Liquid Crystalline Polymer with 3D Structure fabricated by Thermal Nanoimprinting. <i>Journal of Photopolymer Science and Technology</i> = [Fotoporima Konwakai Shi], 2013, 26, 83-85.	0.3	2
34	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
35	Reconstruction of polarized optical images in two- and three-dimensional vector holograms. <i>Journal of Applied Physics</i> , 2009, 106, 083109.	2.5	12
36	Vector holograms using radially polarized light. <i>Applied Physics Letters</i> , 2009, 94, .	3.3	27

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37	Three-dimensional vector holograms in photoreactive polymer dissolved liquid crystal composite. <i>Optical Review</i> , 2009, 16, 339-342.	2.0	1
38	Three-dimensional vector holograms in anisotropic photoreactive liquid-crystal composites. <i>Applied Optics</i> , 2008, 47, 2192.	2.1	27
39	Anisotropic photonic structures induced by three-dimensional vector holography in dye-doped liquid crystals. <i>Journal of Applied Physics</i> , 2008, 104, .	2.5	16
40	Functionalized Polarization Gratings in Azo-Dye Doped Polymer Films. <i>Molecular Crystals and Liquid Crystals</i> , 2007, 472, 131/[521]-136/[526].	0.9	1