Tomoyuki Sasaki

List of Publications by Year
in descending order

40	308	759233 12	888059 17
papers	citations	h-index	g-index

40	40	40	224
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Photoinduced reorientation and polarization holography in a new photopolymer with 4-methoxy-N-benzylideneaniline side groups. APL Materials, 2013, 1, .	5.1	31
2	Universal polarization terahertz phase controllers using randomly aligned liquid crystal cells with graphene electrodes. Optics Letters, 2015, 40, 1544.	3.3	28
3	Three-dimensional vector holograms in anisotropic photoreactive liquid-crystal composites. Applied Optics, 2008, 47, 2192.	2.1	27
4	Vector holograms using radially polarized light. Applied Physics Letters, 2009, 94, .	3.3	27
5	Transmission and reflection phase gratings formed in azo-dye-doped chiral nematic liquid crystals. Applied Physics Letters, 2009, 94, 023303.	3.3	20
6	Twisted nematic liquid crystal cells with rubbed poly(3,4-ethylenedioxythiophene)/poly(styrenesulfonate) films for active polarization control of terahertz waves. Journal of Applied Physics, 2017, 121, .	2.5	20
7	Tunable dichroic polarization beam splitter created by one-step holographic photoalignment using four-beam polarization interferometry. Journal of Applied Physics, 2017, 121, 013102.	2.5	18
8	Anisotropic photonic structures induced by three-dimensional vector holography in dye-doped liquid crystals. Journal of Applied Physics, 2008, 104, .	2.5	16
9	Active Terahertz Polarization Converter Using a Liquid Crystal-Embedded Metal Mesh. IEEE Photonics Journal, 2019, 11, 1-7.	2.0	15
10	Reconstruction of polarized optical images in two- and three-dimensional vector holograms. Journal of Applied Physics, 2009, 106, 083109.	2.5	12
11	Temporal formation of optical anisotropy and surface relief during polarization holographic recording in polymethylmethacrylate with azobenzene side groups. Applied Physics B: Lasers and Optics, 2014, 114, 373-380.	2.2	12
12	Liquid crystal cells with subwavelength metallic gratings for transmissive terahertz elements with electrical tunability. Optics Communications, 2019, 431, 63-67.	2.1	12
13	Merged vector gratings recorded in a photocrosslinkable polymer liquid crystal film for polarimetry. Journal of Applied Physics, 2014, 115, .	2.5	8
14	Photoinduced Reorientation and Photofunctional Control of Liquid Crystalline Copolymers with in Situ-Formed N-Benzylideneaniline Derivative Side Groups. Langmuir, 2021, 37, 1164-1172.	3.5	8
15	Subwavelength liquid crystal gratings for polarization-independent phase shifts in the terahertz spectral range. Optical Materials Express, 2020, 10, 240.	3.0	7
16	Photoalignment and resulting holographic vector grating formation in composites of low molecular weight liquid crystals and photoreactive liquid crystalline polymers. Applied Physics B: Lasers and Optics, 2015, 120, 217-222.	2.2	5
17	Optical control of polarized terahertz waves using dye-doped nematic liquid crystals. AIP Advances, 2018, 8, 115326.	1.3	5
18	Mode demultiplexing of vector beams using crossed-fork-shaped polarization grating fabricated by photoalignment of photo-crosslinkable liquid crystal polymer. Applied Physics Letters, 2019, 115, .	3.3	5

#	Article	IF	Citations
19	Polarized Fluorescence of N-Salicylideneaniline Derivatives Formed by In Situ Exchange from N-Benzylideneaniline Side Groups in Photoaligned Liquid Crystalline Copolymer Films. Langmuir, 2022, 38, 2862-2871.	3.5	4
20	Polarization axis-selective realignment of a photoreactive liquid crystalline composite with homogeneous alignment. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	2.3	3
21	Effects of slant angle of metallic fish-scale structure on polarization conversion in the terahertz spectral range. Applied Physics A: Materials Science and Processing, 2018, 124, 1.	2.3	3
22	Applied voltage response of a cholesteric liquid crystal cell observed by simultaneous measurement of phase and reflection changes based on optical interferometry. Japanese Journal of Applied Physics, 2018, 57, 091701.	1.5	3
23	Birefringence Control of Photoalignable Liquid Crystalline Polymers Based on an In Situ Exchange of Oriented Mesogenic Side Groups. Chemistry Letters, 2022, 51, 91-93.	1.3	3
24	Highly Birefringent Terahertz Metasurfaces Based on a Liquid-Crystal-Embedded Metal Mesh. IEEE Photonics Journal, 2022, 14, 1-6.	2.0	3
25	Molecular Orientation of Photoinduced Liquid Crystalline Polymer with 3D Structure fabricated by Thermal Nanoimprinting. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2013, 26, 83-85.	0.3	2
26	Temporal characteristics of polarization holographic gratings formed in a photosensitive polymeric film containing N-benzylideneaniline derivative side groups. Journal of Applied Physics, 2014, 115, 153102.	2.5	2
27	Thermally controllable chiral nematic vector gratings with holographically regulated photoalignment films. Applied Physics B: Lasers and Optics, 2016, 122, 1.	2.2	2
28	Fabrication of fine metal structures based on laser drawing method using interference pattern from co-propagating optical vortices. Applied Physics Letters, 2018, 112, 021106.	3.3	2
29	Functionalized Polarization Gratings in Azo-Dye Doped Polymer Films. Molecular Crystals and Liquid Crystals, 2007, 472, 131/[521]-136/[526].	0.9	1
30	Three-dimensional vector holograms in photoreactive polymer dissolved liquid crystal composite. Optical Review, 2009, 16, 339-342.	2.0	1
31	Effects of photocrosslinking on photorefractive properties in polymer-liquid crystal composites. Applied Physics A: Materials Science and Processing, 2014, 114, 1353-1360.	2.3	1
32	Influence of alkylene spacer length on photoinduced orientation of liquid crystalline polymer with N-benzylideneaniline side groups. Molecular Crystals and Liquid Crystals, 2017, 644, 61-68.	0.9	1
33	Birefringent Control of Photo-Oriented Polymeric Films by <i>in situ</i> Exchange of Functional Moieties. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2021, 34, 511-515.	0.3	1
34	Reorientation of photoreactive liquid crystalline polymer pattern fabricated by hybrid nanoimprinting. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2013, 31, 06FB04.	1.2	0
35	Comparison Molecular Orientation of Photoinduced Liquid Crystalline Polymer induced by Thermal Nanoimprinting to that by Graphoepitaxy. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2013, 26, 65-68.	0.3	0
36	Blazed vector gratings fabricated using photosensitive polymer liquid crystals and control of polarization diffraction. Applied Physics B: Lasers and Optics, 2014, 114, 567-571.	2.2	0

#	Article	IF	Citations
37	Fabrication of fine metal structure by using interference pattern of copropagating optical vortices and lift-off process. , 2017, , .		0
38	Incident-Angle-Dependence-Relaxed Polarization Grating formed using Polymer Liquid Crystal Exhibiting Biaxial Optical Anisotropy. , 2019, , .		0
39	Mode detection of vector beams by use of crossed-fork-shaped polarization grating fabricated by photoalignment of photo-crosslinkable polymer liquid crystal. , 2019, , .		0
40	Homogeneous Photoalignment of Liquid Crystals without Precoated Alignment Layers. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2019, 32, 549-552.	0.3	0