Seung-Won Oh

List of Publications by Year
in descending order

64 papers	874 citations	430874 18 h-index	526287 27 g-index
65 all docs	65 docs citations	65 times ranked	429 citing authors

#	Article	IF	Citations
1	A cholesteric liquid crystal smart window with a low operating voltage. Dyes and Pigments, 2022, 197, 109843.	3.7	31
2	Liquid-crystal-based floating-electrode-free coplanar waveguide phase shifter with an additional liquid-crystal layer for 28-GHz applications. Journal Physics D: Applied Physics, 2022, 55, 095106.	2.8	6
3	Optical see-through head-mounted display including transmittance-variable display for high visibility. Journal of Information Display, 2022, 23, 121-127.	4.0	4
4	A simulation of diffractive liquid crystal smart window for privacy application. Scientific Reports, 2022, 12, .	3.3	6
5	Measuring the five elastic constants of a nematic liquid crystal elastomer. Liquid Crystals, 2021, 48, 511-520.	2.2	9
6	Formation of a fine polymer structure on a plastic substrate through phase separation of a liquid crystal mixture. Journal of Information Display, 2021, 22, 31-38.	4.0	1
7	Self-Regulation of Infrared Using a Liquid Crystal Mixture Doped with Pushâ€"Pull Azobenzene for Energy-Saving Smart Windows. ACS Applied Materials & Interfaces, 2021, 13, 5028-5033.	8.0	36
8	A Switchable Cholesteric Phase Grating with a Low Operating Voltage. Crystals, 2021, 11, 100.	2.2	3
9	Filtering of yellow light in a liquid-crystal light shutter for higher color contrast and reduced glare. Journal of Molecular Liquids, 2021, 327, 114846.	4.9	3
10	Broadband tunable polarization rotator based on the waveguiding effect of liquid crystals. Journal Physics D: Applied Physics, 2021, 54, 355108.	2.8	3
11	16.1: Invited Paper: Selfâ€Regulating Liquid Crystal Windows for Energy Saving. Digest of Technical Papers SID International Symposium, 2021, 52, 211-214.	0.3	1
12	Flexible, broadband, super-reflective infrared reflector based on cholesteric liquid crystal polymer. Solar Energy Materials and Solar Cells, 2021, 230, 111137.	6.2	12
13	Smart Window Based on Angular-Selective Absorption of Solar Radiation with Guestâ€"Host Liquid Crystals. Crystals, 2021, 11, 131.	2.2	10
14	Liquid crystal cell asymmetrically anchored for high transmittance and triggered with a vertical field for fast switching. Optics Express, 2020, 28, 20553.	3.4	7
15	Optimization of dye mixing for achromatic transmittance control with a dye-doped cholesteric liquid crystal cell. Dyes and Pigments, 2019, 160, 172-176.	3.7	4
16	Formation of polymer structure by thermally-induced phase separation for a dye-doped liquid crystal light shutter. Dyes and Pigments, 2019, 163, 749-753.	3.7	11
17	Parameter Space Design of a Guest-Host Liquid Crystal Device for Transmittance Control. Crystals, 2019, 9, 63.	2.2	9
18	Tristate switching of a liquid-crystal cell among initial transparent, haze-free dark, and high-haze dark states. Journal of Molecular Liquids, 2019, 281, 81-85.	4.9	26

#	ARTICLE	IF	CITATIONS
19	Design of an achromatic wide-view circular polarizer using normal dispersion films. Journal of Information Display, 2019, 20, 25-30.	4.0	9
20	Independent control of haze and total transmittance with a dye-doped liquid crystal phase-grating device. Applied Optics, 2019, 58, 4315.	1.8	8
21	Formation of polymer structure by thermally-induced phase separation in a dye-doped liquid crystal cell. , 2019, , .		0
22	Optical and Thermal Switching of Liquid Crystals for Selfâ€Shading Windows. Advanced Sustainable Systems, 2018, 2, 1700164.	5.3	35
23	Fabrication of an initially-focal-conic cholesteric liquid crystal cell without polymer stabilization. Displays, 2018, 52, 55-58.	3.7	19
24	Ion-doped liquid-crystal cell with low opaque-state specular transmittance based on electro-hydrodynamic effect. Dyes and Pigments, 2018, 150, 16-20.	3.7	34
25	Thermal control of transmission property by phase transition in cholesteric liquid crystals. Journal of Materials Chemistry C, 2018, 6, 6520-6525.	5.5	31
26	Control of Transmittance by Thermally Induced Phase Transition in Guestâ€"Host Liquid Crystals. Advanced Sustainable Systems, 2018, 2, 1800066.	5.3	19
27	Enhancement of absorption and haze with hybrid anchoring of dye-doped cholesteric liquid crystals. Optics Express, 2018, 26, 14259.	3.4	14
28	Self-shading by optical or thermal control of transmittance with liquid crystals doped with push-pull azobenzene. Solar Energy Materials and Solar Cells, 2018, 183, 146-150.	6.2	26
29	43â€4: Selfâ€Shading with Opticallyâ€•and Thermallyâ€Switchable Liquid Crystals. Digest of Technical Papers SID International Symposium, 2018, 49, 554-556.	0.3	2
30	Smart window using a thermally and optically switchable liquid crystal cell. , 2018, , .		0
31	Transmittance control of a liquid crystal device using a dye mixture. , 2018, , .		0
32	27â€3 2â€Đ Confinement of LCs with Virtual Walls for a Fast Response LCD. Digest of Technical Papers SID International Symposium, 2017, 48, 385-388.	0.3	9
33	Optical and electrical switching of cholesteric liquid crystals containing azo dye. RSC Advances, 2017, 7, 19497-19501.	3.6	58
34	Cholesteric liquid crystal cell with the focal-conic initial state. , 2017, , .		0
35	Bistable switching between homeotropic and focal-conic states in an ion-doped chiral nematic liquid crystal cell. Optics Express, 2017, 25, 29180.	3.4	26
36	Sunlight-switchable light shutter fabricated using liquid crystals doped with push-pull azobenzene. Optics Express, 2016, 24, 26575.	3.4	13

#	Article	IF	Citations
37	P-142: Double-Layered Light Shutter using Polymer Dispersed Liquid Crystals and Dye-Doped Cholesteric Liquid Crystals. Digest of Technical Papers SID International Symposium, 2016, 47, 1653-1655.	0.3	0
38	Dye-doped cholesteric liquid crystal light shutter with a polymer-dispersed liquid crystal film. Dyes and Pigments, 2016, 134, 36-40.	3.7	92
39	P-130: Investigation on Image Flicker in an FFS-LCD Panel: Dependence on Electrode Spacing. Digest of Technical Papers SID International Symposium, 2016, 47, 1607-1609.	0.3	1
40	Elimination of image flicker in a fringe-field switching liquid crystal cell. , 2016, , .		0
41	Fast fringe-field switching of a liquid crystal cell by two-dimensional confinement with virtual walls. Scientific Reports, 2016, 6, 27936.	3.3	39
42	Electro-Optical Performance of a Zero Pre-Tilt Liquid Crystal Cell Fabricated by Using the Field-Induced UV-Alignment Method. Journal of Display Technology, 2016, 12, 40-44.	1.2	5
43	Dependence of image flicker on dielectric anisotropy of liquid crystal in a fringe field switching liquid crystal cell. Japanese Journal of Applied Physics, 2016, 55, 094101.	1.5	4
44	Field induced UV-alignment method for a zero pre-tilt liquid crystal cell. Proceedings of SPIE, 2016, , .	0.8	0
45	Electro-optical characteristics of an in-plane-switching liquid crystal cell with zero rubbing angle: dependence on the electrode structure. Optics Express, 2016, 24, 15987.	3.4	22
46	Surface flattening of a polyimide layer in a liquid crystal cell fabricated by using a field-induced UV-alignment method. RSC Advances, 2016, 6, 55282-55285.	3.6	3
47	Four-Domain Electrode Structure for Wide Viewing Angle in a Fringe-Field-Switching Liquid Crystal Display. Journal of Display Technology, 2016, 12, 667-672.	1.2	12
48	Effect of electrode spacing on image flicker in fringe-field-switching liquid crystal display. Liquid Crystals, 2016, 43, 972-979.	2.2	16
49	67.2: Fabrication of A Zeroâ€pretilt Liquid Crystal Cell using UVâ€curable Polymer. Digest of Technical Papers SID International Symposium, 2015, 46, 994-996.	0.3	0
50	Optical compensation for elimination of off-axis light leakage in a liquid crystal display. , 2015, , .		0
51	Elimination of off-axis light leakage in a homogeneously aligned liquid crystal cell. Proceedings of SPIE, 2015, , .	0.8	0
52	Near-zero pretilt alignment of liquid crystals using polyimide films doped with UV-curable polymer. Optics Express, 2015, 23, 1044.	3.4	30
53	Elimination of image flicker in a fringe-field switching liquid crystal display by applying a bipolar voltage wave. Optics Express, 2015, 23, 24013.	3.4	24
54	Optical compensation methods for the elimination of off-axis light leakage in an in-plane-switching liquid crystal display. Journal of Information Display, 2015, 16, 1-10.	4.0	39

#	Article	IF	Citations
55	Fast bistable switching of a chiral-nematic liquid crystal cell induced by applying an in-plane electric field. , 2015, , .		0
56	Optical Compensation for Elimination of Off-Axis Light Leakage in a Homogeneously-Aligned Liquid Crystal Cell. Molecular Crystals and Liquid Crystals, 2015, 613, 181-189.	0.9	5
57	Fast bistable switching of a cholesteric liquid crystal device induced by application of an in-plane electric field. Applied Optics, 2014, 53, 7321.	2.1	10
58	Elimination of light leakage over the entire viewing cone in a homogeneously-aligned liquid crystal cell. Optics Express, 2014, 22, 5808.	3.4	35
59	Pâ€129: Fast Switching of a Verticallyâ€Aligned Liquid Crystal Cell by Forming Polymer Networks at a Low Temperature. Digest of Technical Papers SID International Symposium, 2014, 45, 1473-1475.	0.3	0
60	Achromatic wide-view circular polarizers for a high-transmittance vertically-aligned liquid crystal cell. Optics Letters, 2014, 39, 4683.	3.3	14
61	Fast Switching of Vertically Aligned Liquid Crystals by Low-Temperature Curing of the Polymer Structure. Journal of the Optical Society of Korea, 2014, 18, 395-400.	0.6	4
62	Dual mode operation of a chiral-nematic liquid crystal cell using three-terminal electrodes. , 2013, , .		0
63	Achromatic optical compensation using dispersion of uniaxial films for elimination of off-axis light leakage in a liquid crystal cell. Applied Optics, 2013, 52, 7785.	1.8	12
64	Dual mode switching of cholesteric liquid crystal device with three-terminal electrode structure. Optics Express, 2012, 20, 24376.	3.4	21