

Se-Um Kim

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Broadband and pixelated camouflage in inflating chiral nematic liquid crystalline elastomers. <i>Nature Materials</i> , 2022, 21, 41-46.	27.5	89
2	Self-Regulating Contact Lenses with the Patterning of a Photochromic Layer Based on Wettability Contrast. <i>Advanced Materials Interfaces</i> , 2021, 8, 2001443.	3.7	5
3	High-Definition Optophysical Image Construction Using Mosaics of Pixelated Wrinkles. <i>Advanced Science</i> , 2020, 7, 2002134.	11.2	15
4	Programming emergent symmetries with saddle-splay elasticity. <i>Nature Communications</i> , 2019, 10, 5104.	12.8	8
5	Concept of chiral image storage and selection based on liquid crystals by circular polarization. <i>Optics Express</i> , 2019, 27, 11661.	3.4	10
6	Selective photonic printing based on anisotropic Fabry-Perot resonators for dual-image holography and anti-counterfeiting. <i>Optics Express</i> , 2019, 27, 24512.	3.4	25
7	Self-organized wrinkling of liquid crystalline polymer with plasma treatment. <i>Journal of Materials Research</i> , 2018, 33, 4092-4100.	2.6	5
8	Topographic localization of liquid crystals based on gradual phase separation in a polymer network for electrically tunable smart window applications. <i>Journal of Information Display</i> , 2018, 19, 151-157.	4.0	3
9	Generation of intensity-tunable structural color from helical photonic crystals for full color reflective-type display. <i>Optics Express</i> , 2018, 26, 13561.	3.4	13
10	Transparent and flexible high power triboelectric nanogenerator with metallic nanowire-embedded tribonegative conducting polymer. <i>Nano Energy</i> , 2018, 53, 152-159.	16.0	40
11	Concept of active parallax barrier on polarizing interlayer for near-viewing autostereoscopic displays. <i>Optics Express</i> , 2016, 24, 25010.	3.4	12
12	Array of liquid crystal polymer-based Fabry-Perot resonators for image selection by polarization. , 2016, , .		2
13	The domain mixing effect on the electro-optical properties of liquid crystals using polyimide doped with reactive mesogen. <i>Journal of Information Display</i> , 2016, 17, 125-130.	4.0	3
14	New architectures of liquid-crystal-based lenticular lenses in index matching approach for display applications. , 2016, , .		0
15	Colloidal Assembling Template with Wrinkled Patterns Based on Liquid Crystalline Polymer. <i>Molecular Crystals and Liquid Crystals</i> , 2015, 610, 221-226.	0.9	2
16	Self-organized wrinkling patterns of a liquid crystalline polymer in surface wetting confinement. <i>Soft Matter</i> , 2015, 11, 4788-4792.	2.7	16
17	Optically switchable grating based on dye-doped ferroelectric liquid crystal with high efficiency. <i>Optics Express</i> , 2015, 23, 12619.	3.4	16
18	Lenticular lens array based on liquid crystal with a polarization-dependent focusing effect for 2D-3D image applications. <i>Journal of Information Display</i> , 2015, 16, 11-15.	4.0	21

#	ARTICLE	IF	CITATIONS
19	Combinatorial color arrays based on optical micro-resonators in monolithic architecture. Optics Express, 2014, 22, 15320.	3.4	8
20	39.1: <i>Invited Paper</i>: Emerging Areas for Liquid Crystal Technologies Beyond Displays. Digest of Technical Papers SID International Symposium, 2014, 45, 551-554.	0.3	1
21	Precise Lens-On-Lens Architecture Using Selective Wettability for Image-Depth Representation. Molecular Crystals and Liquid Crystals, 2014, 595, 50-54.	0.9	2
22	Tunable liquid crystal lens array by encapsulation with a photo-reactive polymer for short focal length. Optics Communications, 2014, 313, 329-332.	2.1	7
23	Physical mechanism for flat-to-lenticular lens conversion in homogeneous liquid crystal cell with periodically undulated electrode. Optics Express, 2012, 20, 864.	3.4	42
24	26: Tunable Lenticular Lens Array Using Liquid Crystal on Periodically Undulated Electrodes for Autostereoscopic 2D/3D Convertible Displays. Digest of Technical Papers SID International Symposium, 2011, 42, 1584-1586.	0.3	1
25	Reduction of gamma distortions in liquid crystal display by anisotropic voltage-dividing layer of reactive mesogens. Liquid Crystals, 0, , 1-8.	2.2	2
26	Design and fabrication of liquid crystal-based lenses. Liquid Crystals, 0, , 1-12.	2.2	13
27	Reverse-Engineered Highly Conformable, Leak and Pressure Reducing Cushion for Neonatal Resuscitation Mask. Advanced Materials Technologies, 0, , 2101364.	5.8	1