Suk-Won Choi

List of Publications by Year
in descending order

67 papers	1,295 citations	361413 20 h-index	377865 34 g-index
67 all docs	67 docs citations	67 times ranked	962 citing authors

#	Article	IF	Citations
1	Development of colored perovskite solar cells using cholesteric helicoidal superstructures. Nano Energy, 2022, 93, 106801.	16.0	14
2	Chiroptical Characteristics of Nanosegregated Phases in Binary Mixture Consisting of Achiral Bent-Core Molecule and Bent-Core Base Main-Chain Polymer. Polymers, 2022, 14, 2823.	4.5	2
3	Control of the Induced Handedness of Helical Nanofilaments Employing Cholesteric Liquid Crystal Fields. Molecules, 2021, 26, 6055.	3.8	2
4	Liquid Crystalline Cholesteric Reflective Layers for Colored Silicon-Based Solar Cells. Crystals, 2021, 11, 1336.	2.2	1
5	Study of the Relationship between Haze Performance and Fractal Dimension in Micro-Sized Segregated Liquid Crystals Embedded in a Polymer Matrix Consisting of a Thiol-ene Prepolymer and a Multi-Functional Acrylate. Polymers, 2021, 13, 4421.	4.5	0
6	Enhancement of Luminescence Dissymmetry Factor in Nano-Segregated Phase Generated by Phase Separation between Helical Nanofilaments and Liquid-Crystalline Smectic A Phase. Crystals, 2020, 10, 952.	2.2	4
7	Preferential Circularly Polarized Luminescence from a Nano-Segregated Liquid Crystalline Phase Using a Polymerized Twisted Nematic Platform. Polymers, 2020, 12, 2529.	4.5	4
8	Inverse Helical Nanofilament Networks Serving as a Chiral Nanotemplate. ACS Nano, 2020, 14, 5243-5250.	14.6	32
9	Circularly Polarized Luminescence: Circularly Polarized Luminescence Induced by Chiral Super Nanospaces (Adv. Funct. Mater. 35/2019). Advanced Functional Materials, 2019, 29, 1970239.	14.9	5
10	Circularly Polarized Luminescence Induced by Chiral Super Nanospaces. Advanced Functional Materials, 2019, 29, 1903246.	14.9	35
11	Development of a liquid crystal laser using a simple cubic liquid crystalline blue phase platform. RSC Advances, 2019, 9, 32922-32927.	3.6	10
12	Effect of terminal chain length on the helical twisting power in achiral bent-core molecules doped in a cholesteric liquid crystal. RSC Advances, 2018, 8, 1292-1295.	3.6	7
13	Micro-Segregated Liquid Crystal Haze Films for Photovoltaic Applications: A Novel Strategy to Fabricate Haze Films Employing Liquid Crystal Technology. Materials, 2018, 11, 2188.	2.9	4
14	Photomodulating chiroptic behaviors in nanosegregated mesophase from a mixture system consisting of nonchiral bent-core and photo-responsive rod-like mesogens. Journal of Information Display, 2018, 19, 129-133.	4.0	8
15	Enhancement of the helical twisting power with increasing the terminal chain length of nonchiral bent-core molecules doped in a chiral nematic liquid crystal. RSC Advances, 2017, 7, 1932-1935.	3.6	11
16	Polymer Stabilization of Liquid-Crystal Blue Phase II toward Photonic Crystals. ACS Applied Materials & Interfaces, 2017, 9, 8941-8947.	8.0	50
17	Low threshold lasing from heterojunction structure consisting of a dye-doped low-molecular-weight liquid-crystalline Blue phase sandwiched by polymer cholesteric liquid crystal films. Molecular Crystals and Liquid Crystals, 2017, 646, 154-159.	0.9	4
18	Switchable Photonic Crystals Using One-Dimensional Confined Liquid Crystals for Photonic Device Application. ACS Applied Materials & Interfaces, 2017, 9, 3186-3191.	8.0	42

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19	Optical measurement of flexoelectric polarisation change in liquid crystals doped with bent-core molecules using hybrid-aligned structure. Liquid Crystals, 2017, 44, 1321-1331.	2.2	7
20	Nanosegregated Chiral Materials with Selfâ€Assembled Hierarchical Mesophases: Effect of Thermotropic and Photoinduced Polymorphism in Rodlike Molecules. Chemistry - A European Journal, 2017, 23, 17794-17799.	3.3	15
21	Robust and monodomain-like polymer-stabilized simple cubic blue phase with red, green, and blue reflective colors. Journal of Information Display, 2017, 18, 191-197.	4.0	7
22	Chirality Enhancement in a Cholesteric Liquidâ€Crystalline Polymer Doped with Nonâ€Chiral Wâ€shaped Molecules. Bulletin of the Korean Chemical Society, 2016, 37, 1556-1557.	1.9	0
23	Enhancing and reducing chirality by opposite circularly-polarized light irradiation on crystalline chiral domains consisting of nonchiral photoresponsive W-shaped liquid crystal molecules. Soft Matter, 2016, 12, 7937-7942.	2.7	10
24	A monodomain-like liquid-crystalline simple cubic blue phase II. Journal of Information Display, 2015, 16, 155-160.	4.0	22
25	Uniform Alignment of Liquid Crystalline Cubic Blue Phase II via Rubbing Treatment. Molecular Crystals and Liquid Crystals, 2015, 611, 186-191.	0.9	8
26	A well-aligned simple cubic blue phase for a liquid crystal laser. Journal of Materials Chemistry C, 2015, 3, 5383-5388.	5.5	47
27	ITO-free transparent conductive films based on carbon nanomaterials with metal grid for liquid crystal displays. Liquid Crystals, 2015, 42, 954-958.	2.2	12
28	Photomodulated Supramolecular Chirality in Achiral Photoresponsive Rodlike Compounds Nanosegregated from the Helical Nanofilaments of Achiral Bent-Core Molecules. ACS Applied Materials & Interfaces, 2015, 7, 22686-22691.	8.0	27
29	High-transmittance liquid-crystal displays using graphene conducting layers. Liquid Crystals, 2014, 41, 101-105.	2.2	41
30	Thermal phase transition behaviours of the blue phase of bent-core nematogen and chiral dopant mixtures under different boundary conditions. Soft Matter, 2014, 10, 8224-8228.	2.7	9
31	Optical configuration in a three-dimensional active retarder panel for the convenience of head tilting. Journal of the Korean Physical Society, 2013, 62, 975-979.	0.7	3
32	Optical configuration of a three-dimensional active retarder panel for producing symmetric left- and right-circularly-polarized light. Journal of the Korean Physical Society, 2013, 62, 713-717.	0.7	5
33	Liquid-Crystalline Blue Phase II System Comprising a Bent-Core Molecule with a Wide Stable Temperature Range. ACS Applied Materials & Interfaces, 2013, 5, 8025-8029.	8.0	43
34	Liquid crystalline cubic blue phases from a mixture of conventional rod-like nematogen and photoresponsive bent-core molecule. Optical Materials, 2013, 36, 414-418.	3.6	4
35	Liquidâ€Crystalline Blue Phase Laser with Widely Tunable Wavelength. Advanced Materials, 2013, 25, 3002-3006.	21.0	83
36	Plastic Liquid Crystal Display with Polarizers Integrated Inorganic Conducting and Alignment Layers. Molecular Crystals and Liquid Crystals, 2013, 583, 52-59.	0.9	0

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37	A novel diffuser sheet comprising nanosized birefringent fibers embedded within an isotropic polymer matrix. Optics Communications, 2013, 295, 125-128.	2.1	4
38	Active retarder panel used in the twisted nematic mode. Liquid Crystals, 2013, 40, 1223-1226.	2.2	0
39	Liquid-Crystalline Blue Phase Laser with Widely Tunable Wavelength (Adv. Mater. 21/2013). Advanced Materials, 2013, 25, 3001-3001.	21.0	0
40	Photoisomerization-induced stable liquid crystalline cubic blue phase. Chemical Communications, 2012, 48, 9968.	4.1	30
41	A direct-lit backlight unit for a 32-inch liquid crystal display incorporating a newly designed pyramid sheet. Journal of the Korean Physical Society, 2012, 60, 1196-1198.	0.7	2
42	Poly-crystallinity of indium-tin-oxide films improved by using simultaneous ion beam and heat treatment of the plastic substrate. Journal of the Korean Physical Society, 2012, 61, 575-578.	0.7	3
43	Dosimetry by using electron paramagnetic resonance of irradiated single-crystalline Cd0.86Mn0.14Te. Journal of the Korean Physical Society, 2012, 61, 744-748.	0.7	0
44	Transition between widened BPs by light irradiation using photo-active bent-core liquid crystal with chiral dopant. Journal of Materials Chemistry, 2012, 22, 4627.	6.7	37
45	Investigation of ionâ€beamâ€treated SiO_x film surfaces for liquid crystal alignment. Surface and Interface Analysis, 2012, 44, 763-767.	1.8	14
46	Conductivity of ITO film amplified by multiâ€step ion beamâ€treatment on PET layers at room temperature. Surface and Interface Analysis, 2012, 44, 1606-1610.	1.8	1
47	Temperature-Dependent Behaviours of Blue Phase I Observed for a Bent-Core Molecular System. Molecular Crystals and Liquid Crystals, 2011, 550, 1-6.	0.9	5
48	Investigation for correlation between elastic constant and thermal stability of liquid crystalline blue phase I. Soft Matter, 2011, 7, 8800.	2.7	75
49	23.3: A Verticalâ€Fieldâ€Driven Polymerâ€Stabilized Blue Phase Liquid Crystal Displays. Digest of Technical Papers SID International Symposium, 2011, 42, 298-301.	0.3	8
50	Pretilt Direction of Liquid Crystal Molecules on an Ion-Beam-Treated SiOx Films. Molecular Crystals and Liquid Crystals, 2011, 550, 93-97.	0.9	0
51	Study on the Relation Between Rubbing Conditions and Physical Parameters of Polyimide. Molecular Crystals and Liquid Crystals, 2011, 546, 26/[1496]-33/[1503].	0.9	3
52	An Edge-lit Backlight Unit for Small Portable Liquid Crystal Displays with a Newly Designed Single Pyramid Sheet. Journal of the Korean Physical Society, 2011, 58, 392-395.	0.7	10
53	Fabrication of Alignment Layer Coated Indium-Tin-Oxide Prepared by Ultraviolet Nano-Imprinting Lithography. Molecular Crystals and Liquid Crystals, 2010, 530, 7/[163]-12/[168].	0.9	1
54	Fabrication of Broadband Cholesteric Liquid Crystal Films by Photopolymerization-Induced Phase Separation. Molecular Crystals and Liquid Crystals, 2010, 530, 13/[169]-18/[174].	0.9	1

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55	Liquid crystalline blue phase I observed for a bent-core molecule and its electro-optical performance. Journal of Materials Chemistry, 2010, 20, 5813.	6.7	92
56	Investigation for the Relation between the Conditions of the Ion Beam Process and the Physical Parameters of Polyimide. Journal of the Korean Physical Society, 2010, 57, 1299-1302.	0.7	1
57	Spontaneous Chirality Induction and Enantiomer Separation in Liquid Crystals Composed of Achiral Rod-Shaped 4-Arylbenzoate Esters. Journal of the American Chemical Society, 2009, 131, 15055-15060.	13.7	38
58	Pâ€132: Blue Phases Liquid Crystal Cell Driven by Strong Inâ€Plane Electric Field. Digest of Technical Papers SID International Symposium, 2009, 40, 1615-1618.	0.3	9
59	Photoinduced chirality in azobenzene-containing polymer systems. Physical Chemistry Chemical Physics, 2007, 9, 3671.	2.8	82
60	Vibrational Circular Dichroism Spectroscopic Study on Circularly Polarized Light-induced Chiral Domains in the B4 Phase of a Bent Mesogen. Chemistry Letters, 2007, 36, 1018-1019.	1.3	11
61	Chirality Induced by Circularly Polarized Light in Liquid Crystalline Twin Dimers with Azo Linkages. Molecular Crystals and Liquid Crystals, 2007, 465, 153-163.	0.9	6
62	Amplification of Twisting Power in Chiral Mesophase by Introducing Achiral Rod-like Compound with Ester Group. Chemistry Letters, 2006, 35, 896-897.	1.3	11
63	Circular-Polarization-Induced Enantiomeric Excess in Liquid Crystals of an Achiral, Bent-Shaped Mesogen. Angewandte Chemie - International Edition, 2006, 45, 1382-1385.	13.8	102
64	Intrinsic Chirality in a Bent-Core Mesogen Induced by Extrinsic Chiral Structures. Angewandte Chemie - International Edition, 2006, 45, 6503-6506.	13.8	48
65	Light-Induced Macroscopic Chirality in Thin Films of Achiral Main-Chain Amorphous Polyazourea System. Japanese Journal of Applied Physics, 2006, 45, 447-450.	1.5	15
66	Photoinduced circular anisotropy in a photochromicW-shaped-molecule-doped polymeric liquid crystal film. Physical Review E, 2006, 73, 021702.	2.1	40
67	Observation of very large chiral domains in a liquid crystal phase formed by mixtures of achiral bent-core and rod molecules. Journal of Materials Chemistry, 2005, 15, 4020.	6.7	68