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	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
2	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
3	Liquidâ€Crystalline Blue Phase Laser with Widely Tunable Wavelength. Advanced Materials, 2013, 25, 3002-3006.	21.0	83
4	Photoinduced chirality in azobenzene-containing polymer systems. Physical Chemistry Chemical Physics, 2007, 9, 3671.	2.8	82
5	Investigation for correlation between elastic constant and thermal stability of liquid crystalline blue phase I. Soft Matter, 2011, 7, 8800.	2.7	75
6	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
7	Polymer Stabilization of Liquid-Crystal Blue Phase II toward Photonic Crystals. ACS Applied Materials & Interfaces, 2017, 9, 8941-8947.	8.0	50
8	Intrinsic Chirality in a Bent-Core Mesogen Induced by Extrinsic Chiral Structures. Angewandte Chemie - International Edition, 2006, 45, 6503-6506.	13.8	48
9	A well-aligned simple cubic blue phase for a liquid crystal laser. Journal of Materials Chemistry C, 2015, 3, 5383-5388.	5.5	47
10	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
11	Switchable Photonic Crystals Using One-Dimensional Confined Liquid Crystals for Photonic Device Application. ACS Applied Materials & Interfaces, 2017, 9, 3186-3191.	8.0	42
12	High-transmittance liquid-crystal displays using graphene conducting layers. Liquid Crystals, 2014, 41, 101-105.	2.2	41
13	Photoinduced circular anisotropy in a photochromicW-shaped-molecule-doped polymeric liquid crystal film. Physical Review E, 2006, 73, 021702.	2.1	40
14	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
15	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
16	Circularly Polarized Luminescence Induced by Chiral Super Nanospaces. Advanced Functional Materials, 2019, 29, 1903246.	14.9	35
17	Inverse Helical Nanofilament Networks Serving as a Chiral Nanotemplate. ACS Nano, 2020, 14, 5243-5250.	14.6	32
18	Photoisomerization-induced stable liquid crystalline cubic blue phase. Chemical Communications, 2012, 48, 9968.	4.1	30

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19	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
20	A monodomain-like liquid-crystalline simple cubic blue phase II. Journal of Information Display, 2015, 16, 155-160.	4.0	22
21	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
22	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
23	Investigation of ionâ€beamâ€treated SiO_x film surfaces for liquid crystal alignment. Surface and Interface Analysis, 2012, 44, 763-767.	1.8	14
24	Development of colored perovskite solar cells using cholesteric helicoidal superstructures. Nano Energy, 2022, 93, 106801.	16.0	14
25	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
26	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
27	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
28	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
29	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
30	Development of a liquid crystal laser using a simple cubic liquid crystalline blue phase platform. RSC Advances, 2019, 9, 32922-32927.	3.6	10
31	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
32	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
33	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
34	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
35	Uniform Alignment of Liquid Crystalline Cubic Blue Phase II via Rubbing Treatment. Molecular Crystals and Liquid Crystals, 2015, 611, 186-191.	0.9	8
36	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

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37	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
38	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
39	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
40	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
41	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
42	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
43	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
44	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
45	A novel diffuser sheet comprising nanosized birefringent fibers embedded within an isotropic polymer matrix. Optics Communications, 2013, 295, 125-128.	2.1	4
46	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
47	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
48	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
49	Preferential Circularly Polarized Luminescence from a Nano-Segregated Liquid Crystalline Phase Using a Polymerized Twisted Nematic Platform. Polymers, 2020, 12, 2529.	4.5	4
50	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
51	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
52	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
53	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
54	Control of the Induced Handedness of Helical Nanofilaments Employing Cholesteric Liquid Crystal Fields. Molecules, 2021, 26, 6055.	3.8	2

#	Article	IF	Citations
55	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
56	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
57	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
58	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
59	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
60	Liquid Crystalline Cholesteric Reflective Layers for Colored Silicon-Based Solar Cells. Crystals, 2021, 11, 1336.	2.2	1
61	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
62	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
63	Plastic Liquid Crystal Display with Polarizers Integrated Inorganic Conducting and Alignment Layers. Molecular Crystals and Liquid Crystals, 2013, 583, 52-59.	0.9	0
64	Active retarder panel used in the twisted nematic mode. Liquid Crystals, 2013, 40, 1223-1226.	2.2	0
65	Liquid-Crystalline Blue Phase Laser with Widely Tunable Wavelength (Adv. Mater. 21/2013). Advanced Materials, 2013, 25, 3001-3001.	21.0	0
66	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
67	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