List of Publications by Year in descending order

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DONG KI YOON

#	Article	IF	CITATIONS
1	Toward Organic Light Emitting Diode Satisfying Simultaneously Highly Enhanced Light Extraction and Lowly Ambient Light Reflection. Advanced Materials Technologies, 2022, 7, .	3.0	1
2	Light-Driven Fabrication of a Chiral Photonic Lattice of the Helical Nanofilament Liquid Crystal Phase. ACS Applied Materials & Interfaces, 2022, 14, 4409-4416.	4.0	5
3	Circularly Polarized Light Can Override and Amplify Asymmetry in Supramolecular Helices. Journal of the American Chemical Society, 2022, 144, 2657-2666.	6.6	20
4	Mechanochromic Responses of Cholesteric Liquid Crystal Droplets with Nanoscale Periodic Helical Structures Showing Reversible and Tunable Structural Color. ACS Applied Polymer Materials, 2022, 4, 463-468.	2.0	19
5	Orientation control of lyotropic chromonic liquid crystals in the capillary bridge. Journal of Materials Chemistry C, 2022, 10, 6878-6884.	2.7	1
6	Tomographic measurement of dielectric tensors at optical frequency. Nature Materials, 2022, 21, 317-324.	13.3	29
7	Recyclable Periodic Nanostructure Formed by Sublimable Liquid Crystals for Robust Cell Alignment. Langmuir, 2022, 38, 3765-3774.	1.6	5
8	Precise orientation control of a liquid crystal organic semiconductor via anisotropic surface treatment. NPG Asia Materials, 2022, 14, .	3.8	5
9	Controlled nucleation in evaporative crystallization using confined- vapor driven solutal Marangoni effect. Soft Matter, 2022, , .	1.2	2
10	Bilayer-folded lamellar mesophase induced by random polymer sequence. Nature Communications, 2022, 13, 2433.	5.8	6
11	Fabrication of Arrays of Topological Solitons in Patterned Chiral Liquid Crystals for Realâ€Time Observation of Morphogenesis. Advanced Materials, 2022, 34, .	11.1	11
12	Nanoscratch-Directed Self-Assembly of Block Copolymer Thin Films. ACS Applied Materials & Interfaces, 2021, 13, 5772-5781.	4.0	15
13	Molecular Orientation Control of Liquid Crystal Organic Semiconductor for High-Performance Organic Field-Effect Transistors. ACS Applied Materials & Interfaces, 2021, 13, 11125-11133.	4.0	18
14	Directing Polymorphism in the Helical Nanofilament Phase. Chemistry - A European Journal, 2021, 27, 7108-7113.	1.7	4
15	Security use of bilayer dichroic films made of liquid crystal polymer networks. Journal of Information Display, 2021, 22, 173-178.	2.1	2
16	Regioregularity-Dependent Crystalline Structures and Thermal Transitions in Poly(3-dodecylthiophene)s. Chemistry of Materials, 2021, 33, 3312-3320.	3.2	10
17	Charge Transportation and Chirality in Liquid Crystalline Helical Network Phases of Achiral BTBTâ€Derived Polycatenar Molecules. Advanced Functional Materials, 2021, 31, 2102271.	7.8	22
18	Advances in Soft Materials for Sustainable Electronics. Engineering, 2021, 7, 564-580.	3.2	20

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19	Fabrication of Chiral M13 Bacteriophage Film by Evaporationâ€Induced Selfâ€Assembly. Small, 2021, 17, e2008097.	5.2	16
20	Programmable Liquid Crystal Defect Arrays via Electric Field Modulation for Mechanically Functional Liquid Crystal Networks. ACS Applied Materials & Interfaces, 2021, 13, 36253-36261.	4.0	15
21	M13 Bacteriophage: Fabrication of Chiral M13 Bacteriophage Film by Evaporationâ€Induced Selfâ€Assembly (Small 26/2021). Small, 2021, 17, 2170133.	5.2	0
22	Hierarchically Fabricated Amyloid Fibers <i>via</i> Evaporation-Induced Self-Assembly. ACS Nano, 2021, 15, 20261-20266.	7.3	8
23	Chiral Optoelectronic Functionalities <i>via</i> DNA–Organic Semiconductor Complex. ACS Nano, 2021, 15, 20353-20363.	7.3	7
24	Highly Oriented and Ordered Water-Soluble Semiconducting Polymers in a DNA Matrix. Chemistry of Materials, 2020, 32, 688-696.	3.2	16
25	Orientation Control of Semiconducting Polymers Using Microchannel Molds. ACS Nano, 2020, 14, 12951-12961.	7.3	13
26	Security use of the chiral photonic film made of helical liquid crystal structures. Nanoscale, 2020, 12, 21629-21634.	2.8	14
27	Generation of 2D DNA Microstructures via Topographic Control and Shearing. Small, 2020, 16, e2002449.	5.2	10
28	Role of Stimuli on Liquid Crystalline Defects: From Defect Engineering to Switchable Functional Materials. Materials, 2020, 13, 5466.	1.3	12
29	Orientation Control of Helical Nanofilament Phase and Its Chiroptical Applications. Crystals, 2020, 10, 675.	1.0	17
30	2D DNA Microstructures: Generation of 2D DNA Microstructures via Topographic Control and Shearing (Small 34/2020). Small, 2020, 16, 2070189.	5.2	0
31	Fabrication of Bilayer Dichroic Films Using Liquid Crystal Materials for Multiplex Applications. ACS Applied Materials & Interfaces, 2020, 12, 45315-45321.	4.0	8
32	Periodic Arrays of Chiral Domains Generated from the Self-Assembly of Micropatterned Achiral Lyotropic Chromonic Liquid Crystal. ACS Central Science, 2020, 6, 1964-1970.	5.3	18
33	Dendritic growth in a two-dimensional smectic E freely suspended film. Molecular Systems Design and Engineering, 2020, 5, 815-819.	1.7	3
34	Nanoconfined heliconical structure of twist-bend nematic liquid crystal phase. Liquid Crystals, 2019, 46, 316-325.	0.9	6
35	Supramolecular Nanopumps with Chiral Recognition for Moving Organic Pollutants from Water. ACS Applied Materials & Interfaces, 2019, 11, 31220-31226.	4.0	20
36	Frontispiece: Nanoconfinement of the Lowâ€Temperature Dark Conglomerate: Structural Control from Focal Conics to Helical Nanofilaments. Chemistry - A European Journal, 2019, 25, .	1.7	0

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37	Direct Visualization of Optical Activity in Chiral Substances Using a Helical Nanofilament (B4) Liquid Crystal Phase. Advanced Optical Materials, 2019, 7, 1901399.	3.6	19
38	Reconfigurable Periodic Liquid Crystal Defect Array via Modulation of Electric Field. Advanced Materials Technologies, 2019, 4, 1900454.	3.0	29
39	Selfâ€Regulated Smectic Emulsion with Switchable Lasing Application. Small, 2019, 15, 1903818.	5.2	10
40	Directed self-assembly of a helical nanofilament liquid crystal phase for use as structural color reflectors. NPG Asia Materials, 2019, 11, .	3.8	30
41	Controllable liquid crystal defect arrays induced by an in-plane electric field and their lithographic applications. Journal of Materials Chemistry C, 2019, 7, 1713-1719.	2.7	18
42	Interesting phase behaviors and ion-conducting properties of dicationic <i>N</i> -alkylimidazolium tetrafluoroborate salts. RSC Advances, 2019, 9, 3972-3978.	1.7	10
43	Microstructure arrays of DNA using topographic control. Nature Communications, 2019, 10, 2512.	5.8	36
44	Topological defects and geometric memory across the nematic–smectic A liquid crystal phase transition. Soft Matter, 2019, 15, 5835-5841.	1.2	16
45	The Renewable and Sustainable Conversion of Chitin into a Chiral Nitrogenâ€Doped Carbonâ€Sheath Nanofiber for Enantioselective Adsorption. ChemSusChem, 2019, 12, 3236-3242.	3.6	9
46	Optoelectrical and mechanical properties of multiwall carbon nanotube-integrated DNA thin films. Nanotechnology, 2019, 30, 245704.	1.3	9
47	Nanoconfinement of the Lowâ€Temperature Dark Conglomerate: Structural Control from Focal Conics to Helical Nanofilaments. Chemistry - A European Journal, 2019, 25, 7438-7442.	1.7	11
48	Manipulation of Supramolecular Columnar Structures of Hâ€Bonded Donorâ€Acceptor Units through Geometrical Nanoconfinement. ChemPhysChem, 2019, 20, 890-897.	1.0	5
49	Switchable Lasing: Selfâ€Regulated Smectic Emulsion with Switchable Lasing Application (Small 49/2019). Small, 2019, 15, 1970268.	5.2	1
50	Directed Self-Assembly of Topological Defects of Liquid Crystals. Langmuir, 2018, 34, 2551-2556.	1.6	12
51	Curvatures of smectic liquid crystals and their applications. Journal of Information Display, 2018, 19, 7-23.	2.1	18
52	Grooving of nanoparticles using sublimable liquid crystal for transparent omniphobic surface. Journal of Colloid and Interface Science, 2018, 513, 585-591.	5.0	17
53	Optofluidic ring resonator laser with biocompatible liquid gain medium. , 2018, , .		1
54	Mosaics of topological defects in micropatterned liquid crystal textures. Science Advances, 2018, 4, eaau8064.	4.7	50

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55	Highly Oriented Liquid Crystal Semiconductor for Organic Field-Effect Transistors. ACS Central Science, 2018, 4, 1495-1502.	5.3	37
56	Simple Solvent Engineering for High-Mobility and Thermally Robust Conjugated Polymer Nanowire Field-Effect Transistors. ACS Applied Materials & Interfaces, 2018, 10, 29824-29830.	4.0	25
57	Nanoscratching technique for highly oriented liquid crystal materials. Scientific Reports, 2018, 8, 9460.	1.6	23
58	Arrangement and SERS Applications of Nanoparticle Clusters Using Liquid Crystalline Template. ACS Applied Materials & Interfaces, 2017, 9, 7787-7792.	4.0	38
59	Structural transitions and guest/host complexing of liquid crystal helical nanofilaments induced by nanoconfinement. Science Advances, 2017, 3, e1602102.	4.7	32
60	Orthogonal Liquid Crystal Alignment Layer: Templating Speed-Dependent Orientation of Chromonic Liquid Crystals. ACS Applied Materials & Interfaces, 2017, 9, 18355-18361.	4.0	31
61	Morphogenesis of liquid crystal topological defects during the nematic-smectic A phase transition. Nature Communications, 2017, 8, 15453.	5.8	46
62	Switchable Photonic Crystals Using One-Dimensional Confined Liquid Crystals for Photonic Device Application. ACS Applied Materials & Interfaces, 2017, 9, 3186-3191.	4.0	42
63	Formation of periodic zigzag patterns in the twist-bend nematic liquid crystal phase by surface treatment. Liquid Crystals, 2017, , 1-9.	0.9	4
64	Highly Aligned Plasmonic Gold Nanorods in a DNA Matrix. Advanced Functional Materials, 2017, 27, 1703790.	7.8	23
65	Supramolecular Nanotubules as a Catalytic Regulator for Palladium Cations: Applications in Selective Catalysis. Angewandte Chemie - International Edition, 2017, 56, 11511-11514.	7.2	47
66	Nanofluidic chip for liquid TEM cell fabricated by parylene and silicon nitride direct bonding. Nanotechnology, 2017, 28, 375301.	1.3	4
67	Switchable Plasmonic Film Using Nanoconfined Liquid Crystals. ACS Applied Materials & Interfaces, 2017, 9, 25057-25061.	4.0	11
68	Control of Periodic Zigzag Structures of DNA by a Simple Shearing Method. Advanced Materials, 2017, 29, 1604247.	11.1	28
69	Direct observation of liquid crystal phases under nanoconfinement: A grazing incidence X-ray diffraction study. Liquid Crystals, 2017, 44, 713-721.	0.9	11
70	Electro-tunable liquid crystal laser based on high-Q Fabry-Pérot microcavity. Optics Express, 2017, 25, 874.	1.7	2
71	Optofluidic ring resonator laser with an edible liquid laser gain medium. Optics Express, 2017, 25, 14043.	1.7	15
72	Mussel-Inspired Anisotropic Nanocellulose and Silver Nanoparticle Composite with Improved Mechanical Properties, Electrical Conductivity and Antibacterial Activity, Polymers, 2016, 8, 102	2.0	60

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73	Controlling Gaussian and mean curvatures at microscale by sublimation and condensation of smectic liquid crystals. Nature Communications, 2016, 7, 10236.	5.8	28
74	Chiral nematic self-assembly of minimally surface damaged chitin nanofibrils and its load bearing functions. Scientific Reports, 2016, 6, 23245.	1.6	46
75	Fabrication of disordered porous structures by solvent-assisted reorganisation of liquid crystal materials. Liquid Crystals, 2016, 43, 1198-1207.	0.9	0
76	Fast Fabrication of Sub-200-nm Nanogrooves Using Liquid Crystal Material. ACS Applied Materials & Interfaces, 2016, 8, 11851-11856.	4.0	9
77	Direct transfer of multilayer graphene grown on a rough metal surface using PDMS adhesion engineering. Nanotechnology, 2016, 27, 365705.	1.3	5
78	Orientation Control of Smectic Liquid Crystals via a Combination Method of Topographic Patterning and In-Plane Electric Field Application for a Linearly Polarized Illuminator. ACS Applied Materials & Interfaces, 2016, 8, 27942-27948.	4.0	13
79	Liquid crystal phases in confined geometries. Liquid Crystals, 2016, 43, 1951-1972.	0.9	37
80	Digital DNA detection based on a compact optofluidic laser with ultra-low sample consumption. Lab on A Chip, 2016, 16, 4770-4776.	3.1	47
81	Airflow-aligned helical nanofilament (B4) phase in topographic confinement. Scientific Reports, 2016, 6, 29111.	1.6	4
82	Molecular Orientation of Liquid Crystals on Topographic Nanopatterns. ACS Applied Materials & Interfaces, 2016, 8, 17707-17712.	4.0	13
83	Highly Polarized Fluorescent Illumination Using Liquid Crystal Phase. ACS Applied Materials & Interfaces, 2016, 8, 3143-3149.	4.0	31
84	Linkage-length dependent structuring behaviour of bent-core molecules in helical nanostructures. Soft Matter, 2016, 12, 3326-3330.	1.2	15
85	Periodic arrays of liquid crystalline torons in microchannels. RSC Advances, 2015, 5, 19279-19283.	1.7	22
86	Growth pathways of silver nanoplates in kinetically controlled synthesis: bimodal versus unimodal growth. RSC Advances, 2015, 5, 14266-14272.	1.7	43
87	Physico-chemical confinement of helical nanofilaments. Soft Matter, 2015, 11, 3653-3659.	1.2	17
88	Multidimensional Helical Nanostructures in Multiscale Nanochannels. Langmuir, 2015, 31, 8156-8161.	1.6	16
89	In-Plane Switching Mode for Liquid Crystal Displays Using a DNA Alignment Layer. ACS Applied Materials & Interfaces, 2015, 7, 13627-13632.	4.0	31
90	Fabrication of periodic nanoparticle clusters using a soft lithographic template. Journal of Materials Chemistry C, 2015, 3, 4598-4602.	2.7	16

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91	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.	4.0	27
92	Synergistic assembly of nanoparticles in smectic liquid crystals. Soft Matter, 2015, 11, 7367-7375.	1.2	19
93	Twisted-nematic-mode liquid crystal display with a DNA alignment layer. Journal of Information Display, 2015, 16, 129-135.	2.1	14
94	Nucleation and growth of a helical nanofilament (B4) liquid-crystal phase confined in nanobowls. Soft Matter, 2015, 11, 7778-7782.	1.2	9
95	Creation of liquid-crystal periodic zigzags by surface treatment and thermal annealing. Soft Matter, 2015, 11, 8584-8589.	1.2	12
96	Cybotactic behavior in the de Vries smectic-A* liquid-crystal structure formed by a silicon-containing molecule. Physical Review E, 2014, 89, 032502.	0.8	5
97	Orientation control over bent-core smectic liquid crystal phases. Liquid Crystals, 2014, 41, 328-341.	0.9	13
98	Creation of a superhydrophobic surface from a sublimed smectic liquid crystal. RSC Advances, 2014, 4, 26946-26950.	1.7	12
99	Multistep hierarchical self-assembly of chiral nanopore arrays. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 14342-14347.	3.3	53
100	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.	1.2	9
101	Solventâ€Free Directed Patterning of a Highly Ordered Liquid Crystalline Organic Semiconductor via Templateâ€Assisted Selfâ€Assembly for Organic Transistors. Advanced Materials, 2013, 25, 6219-6225.	11.1	73
102	Spiral layer undulation defects in B7 liquid crystals. Soft Matter, 2013, 9, 11303.	1.2	9
103	Self-assembled hydrophobic surface generated from a helical nanofilament (B4) liquid crystal phase. Soft Matter, 2013, 9, 2793.	1.2	28
104	Alignment of helical nanofilaments on the surfaces of various self-assembled monolayers. Soft Matter, 2013, 9, 6185.	1.2	38
105	Three-dimensional textures and defects of soft material layering revealed by thermal sublimation. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 19263-19267.	3.3	27
106	Alignment of the columnar liquid crystal phase of nano-DNA by confinement in channels. Liquid Crystals, 2012, 39, 571-577.	0.9	20
107	Chirality-Preserving Growth of Helical Filaments in the B4 Phase of Bent-Core Liquid Crystals. Journal of the American Chemical Society, 2011, 133, 12656-12663.	6.6	75
108	Smectic Liquid Crystal Defects for Selfâ€Assembling of Building Blocks and Their Lithographic Applications. Advanced Functional Materials, 2011, 21, 610-627.	7.8	94

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109	Orientation of a Helical Nanofilament (B4) Liquidâ€Crystal Phase: Topographic Control of Confinement, Shear Flow, and Temperature Gradients. Advanced Materials, 2011, 23, 1962-1967.	11.1	42
110	Optically Selective Microlens Photomasks Using Selfâ€Assembled Smectic Liquid Crystal Defect Arrays. Advanced Materials, 2010, 22, 2416-2420.	11.1	57
111	Self assembled plate-like structures of single-walled carbon nanotubes by non-covalent hybridization with smectic liquid crystals. Carbon, 2010, 48, 774-780.	5.4	19
112	Organization of the polarization splay modulated smectic liquid crystal phase by topographic confinement. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 21311-21315.	3.3	70
113	Liquid-crystal periodic zigzags from geometrical and surface-anchoring-induced confinement: Origin and internal structure from mesoscopic scale to molecular level. Physical Review E, 2010, 82, 041705.	0.8	21
114	Fabrication of two-dimensional dimple and conical microlens arrays from a highly periodic toroidal-shaped liquid crystal defect array. Journal of Materials Chemistry, 2010, 20, 6557.	6.7	45
115	Self-assembled periodic liquid crystal defects array for soft lithographic template. Soft Matter, 2010, 6, 1426.	1.2	41
116	Block copolymer multiple patterning integrated with conventional ArFlithography. Soft Matter, 2010, 6, 120-125.	1.2	64
117	Fabrication of a Superhydrophobic Surface from a Smectic Liquidâ€Crystal Defect Array. Advanced Functional Materials, 2009, 19, 3008-3013.	7.8	39
118	Confined Self-Assembly of Toric Focal Conic Domains (The Effects of Confined Geometry on the) Tj ETQq0 0 0 rg	gBT /Qverla 1.6	ock 10 Tf 50 3
119	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.	6.6	38
120	Recent advances in the fabrication of nanotemplates from supramolecular self-organization. Journal of Materials Chemistry, 2009, 19, 9091.	6.7	37
121	Energy Transfer in a π-Conjugated Liquid Crystalline Molecule with Two Chromophores of Rigid Biphenyl Core and Pyrene Head Moieties. Journal of Nanoscience and Nanotechnology, 2009, 9, 6968-73.	0.9	Ο
122	Surface ordering of a rod-coil block molecule on the water subphase. Current Applied Physics, 2008, 8, 651-655.	1.1	0
123	A solution processible semiconducting polymer interlayer for blue light-emitting diodes. Nanotechnology, 2007, 18, 175608.	1.3	4
124	Internal structure visualization and lithographic use of periodic toroidal holes in liquid crystals. Nature Materials, 2007, 6, 866-870.	13.3	179
125	Photoluminescence Properties of a Perfluorinated Supramolecular Columnar Liquid Crystal with a Pyrene Core:Â Effects of the Ordering and Orientation of the Columns. Journal of Physical Chemistry B, 2006, 110, 20836-20842.	1.2	23
126	Orientation control of a synthetic columnar perfluorinated supramolecular dendrimer: Surface anchoring and magnetic-field induced alignments. Physica B: Condensed Matter, 2006, 385-386, 801-803.	1.3	2

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127	Large-Area, Highly Aligned Cylindrical Perfluorinated Supramolecular Dendrimers Using Magnetic Fields. Advanced Materials, 2006, 18, 509-513.	11.1	32
128	Surface Ordering of a Perfluorinated, Self-Assembled, Dendrimer on a Water Subphase. Langmuir, 2005, 21, 4989-4995.	1.6	24
129	Alignment of Perfluorinated Supramolecular Columns on the Surfaces of Various Self-Assembled Monolayers. Macromolecules, 2005, 38, 5152-5157.	2.2	16
130	Supramolecular Crystalline Sheets with Ordered Nanopore Arrays from Self-Assembly of Rigid-Rod Building Blocks. Angewandte Chemie - International Edition, 2004, 43, 6465-6468.	7.2	23
131	Self-Organization of a Fan-Shaped Dendrimer at the Airâ^'Water Interface. Langmuir, 2003, 19, 1154-1158.	1.6	22
132	Surface alignment and control of a dendritic liquid crystal in ultrathin films. Liquid Crystals, 2003, 30, 559-563.	0.9	4
133	Surface Order in Thin Films of Self-Assembled Columnar Liquid Crystals. Macromolecules, 2002, 35, 3717-3721.	2.2	51