

Ji-Hoon Lee

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Dynamics of electro-optical switching processes in surface stabilized biaxial nematic phase found in bent-core liquid crystal. <i>Journal of Applied Physics</i> , 2007, 101, 034105.	1.1	90
2	Elimination of image flicker in fringe-field switching liquid crystal display driven with low frequency electric field. <i>Optics Express</i> , 2014, 22, 30586.	1.7	37
3	Vertical alignment of liquid crystals without alignment layers. <i>Liquid Crystals</i> , 2013, 40, 391-395.	0.9	31
4	Full control of nematic pretilt angle using spatially homogeneous mixtures of two polyimide alignment materials. <i>Journal of Applied Physics</i> , 2009, 105, 023508.	1.1	29
5	Negative dispersion of birefringence in two-dimensionally self-organized smectic liquid crystal and monomer thin film. <i>Optics Letters</i> , 2014, 39, 5146.	1.7	28
6	Smectic A phase in a new bent-shaped mesogen based on a 2,3-naphthalene central core with an acute-subtended angle. <i>Journal of Materials Chemistry</i> , 2010, 20, 3743.	6.7	25
7	Photopolymerization of Reactive Amphiphiles: Automatic and Robust Vertical Alignment Layers of Liquid Crystals with a Strong Surface Anchoring Energy. <i>Macromolecules</i> , 2016, 49, 23-29.	2.2	24
8	Flexoelectric effect of a rod-like nematic liquid crystal doped with highly-kinked bent-core molecules for energy converting components. <i>Soft Matter</i> , 2012, 8, 2370.	1.2	23
9	Single layer retarder with negative dispersion of birefringence and wide field-of-view. <i>Optics Express</i> , 2016, 24, 19934.	1.7	22
10	Multifunctional Optical Thin Films Fabricated by the Photopolymerization of Uniaxially Oriented Lyotropic Liquid Crystal Monomers for Electro-Optical Devices. <i>Scientific Reports</i> , 2016, 6, 36472.	1.6	21
11	Direct Measurement of Surface-Induced Orientational Order Parameter Profile above the Nematic-Isotropic Phase Transition Temperature. <i>Physical Review Letters</i> , 2009, 102, 167801.	2.9	20
12	Formation of liquid crystal multi-domains with different threshold voltages by varying the surface anchoring energy. <i>Journal of Applied Physics</i> , 2012, 112, 054107.	1.1	20
13	A Designed Broadband Absorber Based on ENZ Mode Incorporating Plasmonic Metasurfaces. <i>Micromachines</i> , 2019, 10, 673.	1.4	20
14	Unusual temperature dependence of the splay elastic constant of a rodlike nematic liquid crystal doped with a highly kinked bent-core molecule. <i>Physical Review E</i> , 2013, 88, 062511.	0.8	19
15	Efficient Broadband Truncated-Pyramid-Based Metamaterial Absorber in the Visible and Near-Infrared Regions. <i>Crystals</i> , 2020, 10, 784.	1.0	19
16	Synthesis and Mesomorphic Properties of Main-Chain Polymers Containing V-Shaped Bent-Core Mesogens with Acute-Subtended Angle. <i>Macromolecules</i> , 2010, 43, 2865-2872.	2.2	17
17	Synthesis of zinc oxide (ZnO) nanorods and its phenol sensing by dielectric investigation. <i>Journal of Alloys and Compounds</i> , 2015, 644, 597-601.	2.8	17
18	Memory effects in polymer stabilized ferroelectric liquid crystals, and their dependence on the morphology of the constituent molecules. <i>Journal of Applied Physics</i> , 2005, 97, 084907.	1.1	16

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19	Dependence of image flickering of negative dielectric anisotropy liquid crystal on the flexoelectric coefficient ratio and the interdigitated electrode structure. <i>Journal Physics D: Applied Physics</i> , 2016, 49, 075501.	1.3	16
20	Inducing an antiferroelectric phase by segregating the layers of an intrinsically ferroelectric phase-only liquid crystal with linear-shaped molecules. <i>Journal of Applied Physics</i> , 2005, 98, 094110.	1.1	14
21	Surface gliding of the easy axis of a polymer-stabilized nematic liquid crystal and its dependence on the constituent monomers. <i>Physical Review E</i> , 2011, 84, 051701.	0.8	14
22	High dielectric response of 2D-polyaniline nanoflake based epoxy nanocomposites. <i>RSC Advances</i> , 2015, 5, 48421-48425.	1.7	14
23	Pseudo-rodlike molecules with hockey-stick-shaped mesogen. <i>Liquid Crystals</i> , 2016, 43, 1597-1605.	0.9	13
24	Negative dispersion retarder with a wide viewing angle made by stacking reactive mesogen on a polymethylmethacrylate film. <i>Optical Engineering</i> , 2016, 55, 027106.	0.5	13
25	Construction of Polymer-Stabilized Automatic MultiDomain Vertical Molecular Alignment Layers with Pretilt Angles by Photopolymerizing Dendritic Monomers under Electric Fields. <i>ACS Omega</i> , 2017, 2, 5942-5948.	1.6	13
26	Boundary symmetry-stabilized memory in mono-layered cholesteric capsules. <i>Applied Physics Letters</i> , 2011, 99, 153308.	1.5	11
27	Conversion of retardation dispersion in self-organized smectic reactive mesogen compound and its dependence on the UV polymerization temperature and the molecular orientation. <i>Optics Express</i> , 2018, 26, 10661.	1.7	11
28	Latticework Nanostructure by Chemical Function Transfer and Molecular Shape Amplification of Programmed Reactive Mesogens. <i>Advanced Functional Materials</i> , 2019, 29, 1905214.	7.8	11
29	Viewing angle compensation of vertical alignment liquid crystal display using a triphenylene-based discotic reactive mesogen. <i>Liquid Crystals</i> , 2015, 42, 1779-1784.	0.9	9
30	Coatable Compensator for Flexible Display: Single-Layered Negative Dispersion Retarder Fabricated by Coating, Self-Assembling, and Polymerizing Host-Guest Reactive Mesogens. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 17766-17773.	4.0	9
31	Ultra-broadband metamaterial absorber for high solar thermal energy conversion efficiency. <i>Physica B: Condensed Matter</i> , 2021, 620, 413261.	1.3	9
32	Polar-horizontal versus polar-vertical reverse-tilt-domain walls: Influence of a pretilt angle below the nematic-isotropic phase transition. <i>Physical Review E</i> , 2008, 78, 021708.	0.8	8
33	Reversible greyscale memory effect of a bent-core liquid crystal. <i>Journal Physics D: Applied Physics</i> , 2011, 44, 415304.	1.3	8
34	Effect of the ratio between monoacrylate and diacrylate reactive mesogen on the transmission spectrum of polymer-stabilized cholesteric liquid crystal. <i>Optical Materials Express</i> , 2018, 8, 97.	1.6	8
35	Stokes Polarimetry Method for Measuring In-Plane Retardation and Out-of-Plane Retardation of Optical Wave. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2020, 69, 9805-9812.	2.4	8
36	Highly stretchable electroluminescent device based on copper nanowires electrode. <i>Scientific Reports</i> , 2022, 12, .	1.6	8

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37	A Study on the Orientational Ordering Deformation in Ferroelectric Liquid Crystal during Bending of the Plastic Substrate. Japanese Journal of Applied Physics, 2005, 44, 7528-7531.	0.8	7
38	Negative dispersion retarder using two negative birefringence films. Optics Express, 2015, 23, 13108.	1.7	7
39	Dependence of the birefringence of polystyrene film on the stretching conditions. Applied Optics, 2018, 57, 268.	0.9	7
40	Synthesis and dielectric characterization of polycarbonate/multi-wall carbon nanotubes nanocomposite. Arabian Journal of Chemistry, 2019, 12, 440-446.	2.3	7
41	Electro-optical properties of the nematic phase in V-shaped molecules with a 2,3-naphthalene central unit. Journal of Materials Chemistry C, 2013, 1, 451-455.	2.7	6
42	Copper Nanowire-Sealed Titanium Dioxide/Poly(dimethylsiloxane) Electrode with an In-Plane Wavy Structure for a Stretchable Capacitive Strain Sensor. ACS Applied Nano Materials, 2022, 5, 7150-7160.	2.4	6
43	Chiral domain formation from the mixture of achiral rod-like liquid crystal and tri boomerang-shaped molecule. Journal of Applied Physics, 2013, 114, .	1.1	5
44	Orientational and electro-optical properties of liquid crystal aligned with a directly spinnable carbon nanotube web. Liquid Crystals, 2015, 42, 322-327.	0.9	5
45	Dielectric relaxation in a novel tapered chiral photochromatic liquid crystalline dendrimer. Liquid Crystals, 2016, 43, 920-927.	0.9	5
46	Anomalously high dielectric strength and low frequency dielectric relaxation of a bent-core liquid crystal with a large kink angle. Current Applied Physics, 2017, 17, 858-863.	1.1	5
47	Optical anisotropy conversion of retarder film made of rodlike and crosslike reactive molecules, and its dependence on the relative ratio and the orientation of the constituent molecules. Optical Materials, 2020, 99, 109531.	1.7	5
48	Anti-contamination SMART (Spectrum Monitoring Apparatus with Roll-to-roll Transparent film) window for optical diagnostics of plasma systems. Review of Scientific Instruments, 2021, 92, 013507.	0.6	5
49	High-transmittance liquid crystal cell fabricated using nanoparticle-doped polyimide. Liquid Crystals, 2015, 42, 1201-1205.	0.9	4
50	Temperature dependences of the electrooptical properties of rodlike nematic liquid crystals doped with hockey-stick-shaped liquid crystals. Journal of the Korean Physical Society, 2016, 68, 264-267.	0.3	4
51	Enhancement of flexoelectric ratio of nematic liquid crystal by doping calamitic ferroelectric liquid crystal. Liquid Crystals, 2018, 45, 1682-1689.	0.9	4
52	Biaxial-uniaxial transition in a self-assembled nematic liquid crystal by field-induced molecular conformation. Physical Review E, 2011, 83, 051705.	0.8	3
53	Electro-optical properties of a nematic liquid crystal aligned with a mixture of nanofibres and polyimide. Journal Physics D: Applied Physics, 2014, 47, 345303.	1.3	3
54	Enhancement of flexoelastic ratio of nematic liquid crystal doped with hydrogen-bonded bimesogen molecules. Journal of Molecular Liquids, 2019, 277, 541-545.	2.3	3

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55	Simultaneous retardation compensation during bending of plastic film coated with a polymer layer of opposite birefringence. <i>Applied Optics</i> , 2016, 55, 8738.	2.1	3
56	Flexible Ferroelectric Liquid Crystal Cell Stabilized by Column Spacer and Polymer Wall: Influence of Bending and Pressing on the Mechanical Stability. <i>Japanese Journal of Applied Physics</i> , 2011, 50, 060204.	0.8	3
57	Dependence of the viewing angle control property of a guest-host liquid crystal cell on the extinction coefficient of the mixture. <i>Applied Optics</i> , 2019, 58, 6105.	0.9	3
58	Polarity-sensitive switching induced by the electric field in a self-assembled nematic system from two different achiral species of molecules. <i>Journal of Applied Physics</i> , 2007, 102, 084108.	1.1	2
59	Phase Separation Induced Polar Electrooptical Effect in a Doped Nematic Liquid Crystal Cell. <i>Applied Physics Express</i> , 2008, 1, 121801.	1.1	2
60	Effect of the polarisation direction and incident angle of a UV light on the electrooptical response of the polymer-stabilised vertically aligned in-plane switching liquid crystal. <i>Liquid Crystals</i> , 2014, 41, 920-926.	0.9	2
61	53 th : <i>Invited Paper</i> : Negative Dispersion Compensation Film using Self-organization of Smectic Host and Guest Reactive Mesogen Molecules. <i>Digest of Technical Papers SID International Symposium</i> , 2017, 48, 797-799.	0.1	2
62	Dependence of the reflection spectrum of the polymer-stabilized cholesteric liquid crystal on the length of the diacrylate and monoacrylate reactive mesogen molecules. <i>Japanese Journal of Applied Physics</i> , 2017, 56, 081701.	0.8	2
63	Dielectric and electrooptical properties of hockey-stick-shaped liquid crystal with a negative dielectric anisotropy. <i>Current Applied Physics</i> , 2021, 23, 8-14.	1.1	2
64	Optimization of the display viewing angle for automotive application. <i>Journal of Information Display</i> , 2022, 23, 87-95.	2.1	2
65	Optical anisotropy of retarder film made from mixtures of rodlike and T-shaped reactive molecules: dependence on the chemical structure of T-shaped molecules. <i>Optical Materials Express</i> , 0, , .	1.6	2
66	P-77: Image Sticking in a Flexible Liquid Crystal Display Stabilized with Polymers: Surface Gliding Effect. <i>Digest of Technical Papers SID International Symposium</i> , 2012, 43, 1343-1345.	0.1	1
67	P ⁹² : <i>Distinguished Student Poster Paper</i> : 2 nd Nematic Liquid Crystal Mode without Alignment Layers. <i>Digest of Technical Papers SID International Symposium</i> , 2012, 43, 1408-1410.	0.1	1
68	P ⁹⁷ : Electrode Structure for High Transmittance IPS Mode. <i>Digest of Technical Papers SID International Symposium</i> , 2012, 43, 1429-1431.	0.1	1
69	Effect of an electric field applied during the injection procedure on the pretilt angle of a nematic liquid crystal. <i>Liquid Crystals</i> , 2014, 41, 1600-1604.	0.9	1
70	P-92: Orientational Ordering of Nematic Liquid Crystal Aligned with a Directly Spinnable Carbon Nanotube Web. <i>Digest of Technical Papers SID International Symposium</i> , 2015, 46, 1504-1506.	0.1	1
71	P ⁹⁴ : Fast Response Time of Liquid Crystal using a Nanofiber and Polyimide Alignment Mixture. <i>Digest of Technical Papers SID International Symposium</i> , 2015, 46, 1511-1513.	0.1	1
72	73.3: Elimination of Image Flicker in a FFS Panel under Low Frequency Driving. <i>Digest of Technical Papers SID International Symposium</i> , 2015, 46, 1081-1083.	0.1	1

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73	Homeotropic orientation of a nematic liquid crystal by bent-core molecules adsorbed on its surface. Journal of the Korean Physical Society, 2015, 66, 1711-1714.	0.3	1
74	Pä159: Wide Viewing Angle Negative Dispersion Retarder by Stacking Reactive Mesogen with a Positive Birefringence on Stretched Film with a Negative Birefringence. Digest of Technical Papers SID International Symposium, 2017, 48, 1880-1883.	0.1	1
75	Pä131: Simultaneous Compensation of Bendingäinduced Retardation of Plastic Film for the Flexible Displays Application. Digest of Technical Papers SID International Symposium, 2017, 48, 1754-1756.	0.1	1
76	Bending effect on the circular polarizer of an organic light-emitting diode display. Applied Optics, 2019, 58, 3671.	0.9	1
77	Application of a ZnO nanorod layer to display retarder: dependence of the optical property on synthesis conditions. Optical Materials Express, 2020, 10, 3315.	1.6	1
78	Negative dispersion of a form birefringence in subwavelength gratings. Optics Express, 2022, 30, 18287.	1.7	1
79	P-89: Discharge Characteristics of PDPs Having Split Scan Electrodes. Digest of Technical Papers SID International Symposium, 2007, 38, 534-537.	0.1	0
80	P-150: Dynamics of Electro-Optical Switching Processes in Surface Stabilized Biaxial Nematic Phase. Digest of Technical Papers SID International Symposium, 2007, 38, 764-767.	0.1	0
81	5.3: Polarity-Sensitive Switching Nematic System from the Assembly of Achiral Tripod-Shaped and Rod-Shaped Molecules. Digest of Technical Papers SID International Symposium, 2008, 39, 36.	0.1	0
82	52.4L: <i>Late News Paper</i>: Continuous Control of SpatiallyäHomogeneous Nematic Pretilt Angle Using Mixtures of Two Polyimide Alignment Materials. Digest of Technical Papers SID International Symposium, 2009, 40, 787-789.	0.1	0
83	Spontaneous chiral transition of a polymer-stabilised achiral nematic liquid crystal with cylindrical geometry. Liquid Crystals, 2011, 38, 1111-1116.	0.9	0
84	P.100: Multiädomain Vertical Alignment of Liquid Crystals Through Control of the Anchoring Energy. Digest of Technical Papers SID International Symposium, 2013, 44, 1359-1361.	0.1	0
85	P-110: Negative Dispersion of Birefringence in Smectic Liquid Crystal-Polymer Composite. Digest of Technical Papers SID International Symposium, 2015, 46, 1581-1583.	0.1	0
86	Pä160: Optical Study of Biaxial Nematic Bent Core Liquid Crystal for Wide Viewing Angle Liquid Crystal Display. Digest of Technical Papers SID International Symposium, 2017, 48, 1884-1887.	0.1	0
87	Pä204: Parameters of Driving Voltage of the Touch Screen Panel Electrode Inspection Instrument Using PolymeräDispersed Liquid Crystal. Digest of Technical Papers SID International Symposium, 2017, 48, 2047-2050.	0.1	0
88	Optical diode effect of nematic liquid crystal induced by plasma-treated surface. Liquid Crystals, 2018, 45, 180-186.	0.9	0
89	P-146: Effect of Stretching Condition on the In-plane and Out-of-Plane Birefringence of Negative A-plate Polystyrene Film. Digest of Technical Papers SID International Symposium, 2018, 49, 1715-1717.	0.1	0
90	Optical Films: Latticework Nanostructure by Chemical Function Transfer and Molecular Shape Amplification of Programmed Reactive Mesogens (Adv. Funct. Mater. 44/2019). Advanced Functional Materials, 2019, 29, 1970306.	7.8	0

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91	P&A154: Increase of flexoelectric anisotropy of nematic liquid crystal doped with calamitic ferroelectric liquid crystal. Digest of Technical Papers SID International Symposium, 2019, 50, 1814-1816.	0.1	0
92	P&A147: The effect of ultraviolet polarization direction and temperature on the retardation dispersion of a self-organized smectic reactive mesogen film. Digest of Technical Papers SID International Symposium, 2019, 50, 1778-1780.	0.1	0
93	Organic Optoelectronic Materials. Crystals, 2020, 10, 1015.	1.0	0
94	Enhancement of Planar Orientation of Reactive Mesogen Molecules for Optical Retarder Film by Anisotropic Surface Plasma Treatment. Crystals, 2021, 11, 1080.	1.0	0
95	Hybrid Alignment Induced by Asymmetric Photopolymerization of Liquid Crystal-Reactive Mesogen Composition between Two Plastic Substrates. Japanese Journal of Applied Physics, 2011, 50, 051701.	0.8	0
96	Organic Optoelectronic Materials (Volume II). Crystals, 2021, 11, 1327.	1.0	0
97	Outward- and inward-distinguishable bending sensor with silver nanowires sandwiched between polydimethylsiloxane layers. AIP Advances, 2021, 11, 125309.	0.6	0