

# Dae-Shik Seo

## List of Publications by Year in descending order

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257  
papers

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201674

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1632  
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#	ARTICLE	IF	CITATIONS
1	Nanopattern transfer on bismuth gallium oxide surface via sol-gel stamp process applied for uniform liquid crystal alignment. <i>Applied Surface Science</i> , 2022, 576, 151712.	6.1	7
2	Orientation-induced properties of anisotropic polyacrylamide thin layer via plasma treatment in liquid crystal system. <i>European Polymer Journal</i> , 2022, 163, 110937.	5.4	3
3	A fine-ordered nanostructured bismuth tin oxide thin film constructed via sol-gel nanopatterning for liquid crystal system. <i>Applied Physics A: Materials Science and Processing</i> , 2022, 128, 1.	2.3	0
4	Anisotropy and surface morphology of polystyrene-block-poly(ethylene-ran-butylene)-block-polystyrene thin layer irradiated with ion beam. <i>Liquid Crystals</i> , 2022, 49, 1275-1284.	2.2	1
5	Nanopatterning of Polymer/Gallium Oxide Thin Films by UV-Curing Nanoimprint Lithography for Liquid Crystal Alignment. <i>ACS Applied Nano Materials</i> , 2022, 5, 1435-1445.	5.0	14
6	Solution-Driven Imprinting Lithography of Sol-Gel ZnO Thin Films for Liquid Crystal Display. <i>Langmuir</i> , 2022, 38, 2561-2568.	3.5	3
7	Liquid crystals alignment and switching between surface reinforced poly(ethylene-co-vinyl acetate) thin layers. <i>Optical Materials</i> , 2022, 125, 112088.	3.6	1
8	Tunable alignment of liquid crystals between anisotropic polyacrylamide thin layer. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2022, 40, 023408.	2.1	1
9	Superior Performance in Liquid Crystal Alignment of Polystyrene-Block-Poly(ethylene-ran-butylene)-Block-Polystyrene-Graft-Maleic Anhydride Film Irradiated with Ion Beam. <i>ECS Journal of Solid State Science and Technology</i> , 2022, 11, 035013.	1.8	1
10	Physicochemically modified anisotropic polyacrylamide thin film via ion-beam treatment for liquid crystal system. <i>Plasma Processes and Polymers</i> , 2022, 19, 2100207.	3.0	1
11	Well-ordered nanostructured organic/inorganic hybrid thin film construction via UV-nanoimprint lithography applicable to liquid crystal systems. <i>Journal of Applied Polymer Science</i> , 2022, 139, .	2.6	1
12	Oriented Yttrium Strontium Tin Oxide Micro/Nanostructures Induced by Brush Coating for Low-Voltage Liquid Crystal Systems. <i>ACS Applied Nano Materials</i> , 2022, 5, 6925-6934.	5.0	3
13	Physicochemically constructed zinc oxide and UV-curable polymer hybrid films for liquid crystal system. <i>Journal of Molecular Liquids</i> , 2022, 357, 119155.	4.9	0
14	Surface reformed anisotropic polystyrene-block-poly(ethylene-ran-butylene)-block-polystyrene-graft-maleic anhydride layer via ion-beam irradiation for liquid crystals. <i>Polymers for Advanced Technologies</i> , 2022, 33, 2581-2588.	3.2	1
15	Tunable Liquid Crystal Alignment and Driving Mode on Lanthanum Aluminum Zirconium Zinc-Oxide Thin Film Achieved by Convenient Brush-Coating Method. <i>ChemNanoMat</i> , 2022, 8, .	2.8	2
16	Self aligned liquid crystals on sol-gel-processed zirconium oxide surface via nanoimprinting lithography. <i>Optical Materials</i> , 2022, 129, 112494.	3.6	2
17	Achievement of Unidirectional Aluminum Tin Oxide/UV-Curable Polymer Hybrid Film via UV Nanoimprinting Lithography for Uniform Liquid Crystal Alignment. <i>Crystals</i> , 2022, 12, 855.	2.2	0
18	A solution-derived bismuth aluminum gallium tin oxide film constructed by a brush coating method for spontaneous liquid crystal alignment. <i>Materials Advances</i> , 2022, 3, 6019-6027.	5.4	1

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19	Selective Liquid Crystal Driving Mode Achieved by Controlling the Pretilt Angle via a Nanopatterned Organic/Inorganic Hybrid Thin Film. <i>Advanced Optical Materials</i> , 2021, 9, 2001639.	7.3	30
20	High-quality nano structures fabrication on organic/inorganic hybrid thin films by using UV nanoimprint lithography. <i>Materials Chemistry and Physics</i> , 2021, 269, 124771.	4.0	8
21	Surface modification of a poly(ethylene-co-vinyl acetate) layer by ion beam irradiation for the uniform alignment of liquid crystals. <i>Journal of Molecular Liquids</i> , 2021, 339, 116700.	4.9	17
22	Smart Windows with a VO <sub>2</sub> Thin Film as a Conductive Layer for Efficient and Independent Dual-Band Modulation. <i>ACS Applied Electronic Materials</i> , 2021, 3, 4882-4890.	4.3	16
23	Vanadium Dioxide Nanoparticle Doped Polyimide Hybrid Alignment Layers for Flexible Liquid Crystal Displays. <i>ACS Applied Electronic Materials</i> , 2021, 3, 5443-5450.	4.3	4
24	Superior nanopatterns <i>via</i> adjustable nanoimprint lithography on aluminum oxide in high-K thin films with ultraviolet curable polymer. <i>RSC Advances</i> , 2021, 12, 88-93.	3.6	1
25	Electro-optical performance of liquid crystal device based on Al-doped SnO fabricated by sol-gel process. <i>Liquid Crystals</i> , 2020, 47, 345-351.	2.2	4
26	Effect of the Physicochemical Modification on Bismuth-doped Zinc Oxide in the Anisotropic Orientation of Liquid Crystal Molecules. <i>ECS Journal of Solid State Science and Technology</i> , 2020, 9, 043001.	1.8	5
27	Formation of Wrinkle Structures on Styrene- <i>b</i> -isoprene- <i>b</i> -styrene Films Using One-Step Ion-Beam Irradiation. <i>Langmuir</i> , 2020, 36, 3952-3957.	3.5	2
28	Formation of the Wrinkle Structure on a Styrene- <i>b</i> -Butadiene- <i>b</i> -Styrene Block Copolymer Surface by Surface Chemical Reformation via Ion-Beam Irradiation. <i>Journal of Physical Chemistry C</i> , 2020, 124, 8378-8385.	3.1	9
29	Liquid crystal alignment on ion-beam irradiated bismuth-doped tin oxide films and their application to liquid crystal displays. <i>Liquid Crystals</i> , 2019, 46, 86-93.	2.2	8
30	Surface modified solution- <i>in-situ</i> derived nickel oxide film via ion- <i>beam</i> irradiation as a liquid crystal alignment layer. <i>Journal of the Society for Information Display</i> , 2019, 27, 806-815.	2.1	0
31	Ion-beam irradiation modified chemical and physical surface characteristics of polyethylene glycol film for liquid crystal aligning. <i>Soft Materials</i> , 2019, 17, 368-374.	1.7	4
32	The Effect of Ion-Beam Bombardment on Solution-Processed Nickel Oxide Films Used for Liquid Crystal Alignment. <i>ECS Journal of Solid State Science and Technology</i> , 2019, 8, R66-R69.	1.8	0
33	Physicochemical Modification Effect on Homogeneously Aligned Liquid Crystals Based on the Nickel Oxide Thin Film. <i>Journal of Nanoscience and Nanotechnology</i> , 2019, 19, 6139-6143.	0.9	2
34	Physicochemical analysis of ion beam-induced surface modifications on polyethylene glycol films for liquid crystal alignment. <i>Liquid Crystals</i> , 2019, 46, 1799-1807.	2.2	10
35	Decreasing the Residual DC Voltage by Neutralizing the Charged Mobile Ions in Liquid Crystals. <i>Crystals</i> , 2019, 9, 181.	2.2	7
36	Super fast switching and low operating of liquid crystals sandwiched between ion beam-sputtered ITO thin layers. <i>Liquid Crystals</i> , 2019, 46, 1052-1059.	2.2	8

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37	Liquid crystal alignment properties on surface-reformed solution-derived lanthanum-doped zinc oxide films. <i>Soft Materials</i> , 2019, 17, 32-40.	1.7	0
38	Nano pattern transfer on acrylic polymers with UV irradiation for liquid crystal alignment. <i>Polymer</i> , 2019, 161, 1-7.	3.8	20
39	One-dimensional surface wrinkling for twisted nematic liquid crystal display based on ultraviolet nanoimprint lithography. <i>Optics Express</i> , 2019, 27, 18094.	3.4	16
40	Surface modified solution-derived lanthanum-doped zinc oxide film for nematic liquid crystal system with free residual DC voltage. <i>Materials Chemistry and Physics</i> , 2018, 213, 383-388.	4.0	2
41	Superior electro-optical performance in vertically aligned liquid crystal devices based on aluminum oxide films. <i>Soft Materials</i> , 2018, 16, 71-76.	1.7	6
42	Liquid crystal aligning capabilities on surface-reformed indium-doped zinc oxide films via ion-beam exposure. <i>Liquid Crystals</i> , 2018, 45, 1137-1146.	2.2	7
43	Homogeneously aligned liquid crystal molecules on unidirectional buckle pattern of polyurethane films. <i>Liquid Crystals</i> , 2018, 45, 95-101.	2.2	6
44	Thermally stable poly(styrene-maleic anhydride) layer modified by ion-beam for liquid crystal orientation. <i>Materials Chemistry and Physics</i> , 2018, 203, 58-64.	4.0	4
45	Electro-optical properties of liquid crystal displays based on the transparent zinc oxide films treated by using a rubbing method. <i>Optical Materials</i> , 2018, 75, 252-257.	3.6	26
46	Liquid Crystal Alignment on Polyurethane Layer Treated by Ion Beam Irradiation with Low Power Intensity. <i>ECS Journal of Solid State Science and Technology</i> , 2018, 7, R70-R73.	1.8	1
47	Ion-beam-induced surface modification of solution-derived indium-doped zinc oxide film for a liquid crystal device with stable and fast switching properties. <i>Optical Materials</i> , 2018, 84, 209-214.	3.6	7
48	Alignment of liquid crystals on ion beam-sputtered graphene oxide thin layers. <i>Journal of the Society for Information Display</i> , 2017, 25, 83-89.	2.1	2
49	Liquid crystal alignment on ion-beam irradiated homogeneous hafnium strontium oxide films deposited by sol-gel process. <i>Journal of Sol-Gel Science and Technology</i> , 2017, 82, 621-626.	2.4	0
50	Effect of the ion-beam bombardment and annealing temperature on sol-gel derived yttrium aluminum oxide film as liquid crystal alignment layer. <i>Optical Materials</i> , 2017, 64, 569-573.	3.6	5
51	Unidirectional alignment of liquid crystals on solution-derived hafnium tin oxide films via ion-beam irradiation. <i>Journal of Sol-Gel Science and Technology</i> , 2017, 82, 261-268.	2.4	1
52	Free residual DC voltage for nematic liquid crystals on solution-derived lanthanum tin oxide film. <i>Liquid Crystals</i> , 2017, 44, 1421-1428.	2.2	2
53	Inducement of homogeneous liquid crystal alignment on surface-reformed polyurethane films via manipulation of ion-beam irradiation incidence angle. <i>Soft Materials</i> , 2017, 15, 325-330.	1.7	3
54	Stable and fast switching of liquid crystals on solution-derived compound oxide films irradiated by ion beam. <i>Journal of Sol-Gel Science and Technology</i> , 2017, 83, 495-501.	2.4	0

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55	Thermal and electro-optical properties of cerium-oxide-doped liquid-crystal devices. <i>Liquid Crystals</i> , 2017, 44, 538-543.	2.2	16
56	Effect of Annealing Temperature on Liquid Crystal Alignment Using Ion-Beam Irradiated Gallium Tin Oxide as an Alignment Layer and Effective Liquid Crystal Switching in Twisted Nematic Mode. <i>Journal of Nanoscience and Nanotechnology</i> , 2017, 17, 7240-7245.	0.9	1
57	Ion beam fabrication of aluminum-doped zinc oxide layer for high-performance liquid crystals alignment. <i>Optics Express</i> , 2016, 24, 17424.	3.4	21
58	Super-fast switching of liquid crystals sandwiched between highly conductive graphene oxide/dimethyl sulfate doped PEDOT:PSS composite layers. <i>Journal of Applied Physics</i> , 2016, 119, 194505.	2.5	13
59	Hysteresis-free, energy efficient twisted nematic liquid crystal systems based on IB-irradiated gallium-doped tin oxide films. <i>Journal of Sol-Gel Science and Technology</i> , 2016, 79, 29-36.	2.4	7
60	Alignment of liquid crystal molecules on solution-derived zinc-tin-oxide films via ion beam irradiation. <i>Materials Chemistry and Physics</i> , 2016, 173, 186-191.	4.0	1
61	Effect of Poly(vinylidene fluoride-trifluoroethylene) Film Concentration and Alignment Method upon Liquid Crystal Alignment. <i>ECS Journal of Solid State Science and Technology</i> , 2016, 5, R12-R16.	1.8	5
62	Ion beam-induced topographical and chemical modification on the poly(styrene-co-allyl alcohol) and its effect on the molecular interaction between the modified surface and liquid crystals. <i>Materials Chemistry and Physics</i> , 2016, 182, 94-100.	4.0	5
63	Ion-beam-spurred dimethyl-sulfate-doped PEDOT:PSS composite-layer-aligning liquid crystal with low residual direct-current voltage. <i>Applied Physics Letters</i> , 2016, 109, 101901.	3.3	17
64	Twisted nematic LC mode with high electro-optical performance and high thermal endurance formed using IB-irradiated poly(methyl methacrylate) as an alignment layer. <i>Soft Materials</i> , 2016, 14, 148-153.	1.7	0
65	Tailoring the Orientation and Periodicity of Wrinkles Using Ion-Beam Bombardment. <i>Langmuir</i> , 2016, 32, 7138-7143.	3.5	24
66	Homogeneously aligned liquid crystal molecules on reformed poly(methyl methacrylate) via ion-beam irradiation. <i>Optical Materials</i> , 2016, 54, 288-293.	3.6	5
67	Liquid crystal alignment induced by controllable surface wettability of BiFeO <sub>3</sub> bumps thin layer. <i>Liquid Crystals</i> , 2016, , 1-7.	2.2	2
68	Liquid Crystal Alignment on Solution Derived Zinc Oxide Films via Ion Beam Irradiation. <i>Journal of Nanoscience and Nanotechnology</i> , 2016, 16, 2883-2886.	0.9	3
69	Homogeneous liquid crystal alignment of spin-coated strontium oxide and its application for superior LCD performance. <i>Journal of Sol-Gel Science and Technology</i> , 2016, 78, 11-18.	2.4	6
70	Control of the wrinkle structure on surface-reformed poly(dimethylsiloxane) via ion-beam bombardment. <i>Scientific Reports</i> , 2015, 5, 12356.	3.3	55
71	Effect of the annealing temperature and ion-beam bombardment on the properties of solution-derived HfYGaO films as liquid crystal alignment layers. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2015, 33, 061507.	2.1	3
72	Homogeneous self-aligned liquid crystals on wrinkled-wall poly(dimethylsiloxane) via localised ion-beam irradiation. <i>Scientific Reports</i> , 2015, 5, 8641.	3.3	35

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73	Solution-Derived Zn-Doped GaO Films as Alignment Layers for Twisted-Nematic Liquid Crystal Displays Using Ion-Beam Bombardment. IEEE Electron Device Letters, 2015, 36, 817-819.	3.9	2
74	Electro-optical switching of liquid crystals sandwiched between ion-beam-sputtered graphene quantum dots-doped PEDOT:PSS composite layers. Optics Express, 2015, 23, 34071.	3.4	21
75	High Performance of the Electrically Controlled Birefringence Mode in Solution-Derived La <sub>2</sub> O <sub>3</sub> Film Using Low Temperature. Soft Materials, 2015, 13, 1-4.	1.7	2
76	Anisotropic reactive mesogens transfer onto polyimides-mixture layer via imprinting method for continuous pretilt angle control. Liquid Crystals, 2015, 42, 174-180.	2.2	6
77	Alignment of liquid crystals on solution-processed HfZnO films via ion beam irradiation. Liquid Crystals, 2015, 42, 998-1002.	2.2	1
78	Hysteresis-free liquid crystal devices based on solution-derived oxide compound films treated by ion beam irradiation. RSC Advances, 2015, 5, 54079-54084.	3.6	9
79	Ion-beam-irradiated solution-derived tin oxide films for liquid crystal orientation. RSC Advances, 2015, 5, 1918-1922.	3.6	10
80	Conductive Polyaniline for Potential Application in Anisotropic Conductive Films. Journal of Electronic Materials, 2015, 44, 1200-1205.	2.2	3
81	Homogeneous Liquid Crystal Alignment on Ion Beam-Induced Y <sub>2</sub> Sn <sub>2</sub> O <sub>7</sub> Layers. IEEE Electron Device Letters, 2015, 36, 363-365.	3.9	12
82	Homogeneous liquid crystal alignment characteristics on solution-derived HfYGaO films treated with IB irradiation. Optics Express, 2015, 23, 17290.	3.4	8
83	Homogeneous liquid crystal alignment on poly(vinylidene fluoride-trifluoroethylene) films subjected to ion-beam irradiation. Liquid Crystals, 2015, 42, 1262-1268.	2.2	6
84	Localized Ion-Beam Irradiation-Induced Wrinkle Patterns. ACS Applied Materials & Interfaces, 2015, 7, 23216-23222.	8.0	24
85	Superior electro-optical properties of electrically controlled birefringence mode using solution-derived La <sub>2</sub> O <sub>3</sub> films. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2015, 33, .	2.1	7
86	Superior switching behavior of liquid crystals on surface-modified compound oxide films. Optical Materials, 2015, 50, 104-109.	3.6	6
87	Nanocrystalline LaYSrO films for liquid-crystal alignment via a solution process. Liquid Crystals, 2014, 41, 940-945.	2.2	10
88	Superior fast switching of liquid crystal devices using graphene quantum dots. Liquid Crystals, 2014, 41, 761-767.	2.2	49
89	High performance twisted nematic liquid crystal display with solution-derived YZO surface modification via ion-beam irradiation. Optics Express, 2014, 22, 31396.	3.4	9
90	Polarized UV cured reactive mesogens for fast switching and low voltage driving liquid crystal device. Optics Express, 2014, 22, 21551.	3.4	4

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91	Liquid Crystal Aligning Capabilities in Solution-Processed HfZrO Layers Created via Ion-Beam Irradiation. <i>ECS Journal of Solid State Science and Technology</i> , 2014, 3, R212-R215.	1.8	0
92	Enhanced electro-optical behaviour of a liquid crystal system via multi-walled carbon nanotube doping. <i>Liquid Crystals</i> , 2014, 41, 25-29.	2.2	15
93	Spontaneous liquid crystal alignment on solution-derived nanocrystalline tin-oxide films. <i>Journal of Materials Chemistry C</i> , 2014, 2, 3960-3964.	5.5	21
94	Fast switching of liquid crystals on transferred reactive mesogens film via soft imprinting method. <i>RSC Advances</i> , 2014, 4, 34610-34614.	3.6	1
95	Residual DC voltage-free behaviour of liquid crystal system with nickel nanoparticle dispersion. <i>Liquid Crystals</i> , 2014, 41, 247-251.	2.2	22
96	Superior Properties of Homogeneously Aligned Twisted Nematic Liquid Crystals on Nanoscale Molybdenum Trioxide Surfaces. <i>Journal of Nanoscience and Nanotechnology</i> , 2014, 14, 5917-5920.	0.9	1
97	Surface reformation on solution-derived zinc oxide films for liquid crystal systems via ion-beam irradiation. <i>Journal of Materials Chemistry C</i> , 2013, 1, 6824.	5.5	35
98	CISâ€“ZnS quantum dots for self-aligned liquid crystal molecules with superior electro-optic properties. <i>Nanoscale</i> , 2013, 5, 193-199.	5.6	64
99	Liquid crystal orientation on solution processed zinc oxide inorganic films according to molecular concentration. <i>Optical Materials</i> , 2013, 35, 2658-2663.	3.6	2
100	Superior electro-optic properties of liquid crystal system using cobalt oxide nanoparticle dispersion. <i>Liquid Crystals</i> , 2013, 40, 632-638.	2.2	33
101	Effects of Thermal Annealing on the Electronic Structure and Hole-Injection Properties of Molybdenum-Doped Zinc Oxideâ”•Organic Semiconductor Interfaces. <i>Electrochemical and Solid-State Letters</i> , 2012, 15, J31.	2.2	0
102	Oxidation state investigation concerning liquid crystal alignment on polydimethylsiloxane layer by ion beam irradiation. <i>Liquid Crystals</i> , 2012, 39, 71-75.	2.2	5
103	Enhancement of electro-optic properties in liquid crystal devices via titanium nanoparticle doping. <i>Optics Express</i> , 2012, 20, 6448.	3.4	82
104	Liquid Crystal Alignment Properties on Zirconia Doped Polyimide Layer. <i>Molecular Crystals and Liquid Crystals</i> , 2012, 553, 90-96.	0.9	6
105	Electro-Optical Characteristics of ZrO <sub>2</sub> Nanoparticle Doped Liquid Crystal on Ion-Beam Irradiated Polyimide Layer. <i>Journal of Nanoscience and Nanotechnology</i> , 2012, 12, 5587-5591.	0.9	5
106	Homogeneously Aligned Liquid Crystals on a ZrO <sub>2</sub> Alignment Film Using Ion-Beam Irradiation. <i>Ferroelectrics</i> , 2012, 431, 176-182.	0.6	4
107	Electro-Optical Characteristics of Liquid Crystal Device With Nanoscale Molybdenum Trioxide (MoO <sub>3</sub> ) Thin Films. <i>IEEE Electron Device Letters</i> , 2012, 33, 1423-1425.	3.9	1
108	Tin dioxide inorganic nanolevel films with different liquid crystal molecular orientations for application in liquid crystal displays (LCDs). <i>Journal of Materials Chemistry</i> , 2012, 22, 15969.	6.7	58



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109	Enhanced Electrooptical Characteristics of Twisted Nematic Liquid Crystal Display With $\text{ZrO}_2$ Thin Films. IEEE Electron Device Letters, 2012, 33, 1153-1155.	3.9	4
110	Homogeneously Aligned Liquid Crystals on Activated $\alpha\text{-Al}_2\text{O}_3$ Surfaces with Strong Van Der Waals Forces. Ferroelectrics, 2012, 431, 202-208.	0.6	2
111	Enhanced electro-optical properties of $\text{Y}_2\text{O}_3$ (yttrium trioxide) nanoparticle-doped twisted nematic liquid crystal devices. Liquid Crystals, 2012, 39, 789-793.	2.2	28
112	Transparent conductive ZnO:Al films grown by atomic layer deposition for Si-wire-based solar cells. Current Applied Physics, 2012, 12, 273-279.	2.4	30
113	Liquid crystal alignment on inorganic film by ion beam irradiation for flexible display applications. Liquid Crystals, 2011, 38, 877-883.	2.2	2
114	Inorganic Layer for Homogeneously Aligned Crystals Using Ion Beam Irradiation. Molecular Crystals and Liquid Crystals, 2011, 550, 38-44.	0.9	0
115	Homeotropic alignment of liquid crystals on a nano-patterned polyimide surface using nanoimprint lithography. Soft Matter, 2011, 7, 5610.	2.7	70
116	A Study of the Liquid Crystal Alignment Mechanism of Bond-Breaking Via Ion-Beam Irradiation of an Amorphous Aluminum-Oxide Surface. Journal of Display Technology, 2011, 7, 19-23.	1.2	5
117	Electrooptical Properties of Single-Walled Carbon-Nanotube Mixed Liquid-Crystal Cells With Rubbed and Ion-Beam-Treated Alignment Layers. Journal of Display Technology, 2011, 7, 644-648.	1.2	8
118	Orientational control of liquid crystal molecules by reformed poly(dimethylsiloxane) alignment layer via ion-beam irradiation. Materials Chemistry and Physics, 2011, 126, 628-631.	4.0	14
119	Super-Fast Switching of Twisted Nematic Liquid Crystals on 2D Single Wall Carbon Nanotube Networks. Advanced Functional Materials, 2011, 21, 3843-3850.	14.9	89
120	Van der Waals force contribution to the vertical alignment of liquid crystal on $\text{Al}_2\text{O}_3$ films using ion-beam method. Thin Solid Films, 2011, 519, 5654-5657.	1.8	10
121	Effects of the dispersion of zirconium dioxide nanoparticles on high performance electro-optic properties in liquid crystal devices. Liquid Crystals, 2011, 38, 871-875.	2.2	36
122	Etching Effects of Blended Polyimide Layers for Liquid Crystals. Molecular Crystals and Liquid Crystals, 2011, 550, 51-56.	0.9	0
123	Ion bombardment-induced transformation process on $\text{SiN}_x$ surfaces to achieve vertical alignment of liquid crystal molecules. Liquid Crystals, 2011, 38, 349-353.	2.2	10
124	Liquid Crystal Alignment Capabilities on $\text{SiN}_x$ Thin Films Via Ion-Beam Irradiation. Ferroelectrics, 2010, 396, 76-82.	0.6	0
125	High Pretilt Angle Effects on Electro-Optical Property of Ion-Beam Irradiated Liquid Crystal Cells on a Blended Polyimide Surface. Ferroelectrics, 2010, 396, 67-75.	0.6	1
126	Pretilt Angles Transition via Mixture Liquid Crystal System. Molecular Crystals and Liquid Crystals, 2010, 529, 109-114.	0.9	0



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127	Low-Voltage Driving of Liquid Crystals Vertically Aligned by Ion-Beam Bombardment on High-kHfO <sub>2</sub> Surface. <i>Molecular Crystals and Liquid Crystals</i> , 2010, 529, 115-121.	0.9	0
128	Liquid Crystal Alignment Capabilities on SiN <sub>x</sub> Thin Films Via Ion-Beam Irradiation. <i>Ferroelectrics</i> , 2010, 394, 1-7.	0.6	0
129	Vertically Aligned Liquid Crystals on Tantalum Oxide Thin Films Using Ion Beam Irradiation Processing. <i>Journal of the Electrochemical Society</i> , 2010, 157, J107.	2.9	4
130	A chemically modulated polystyrene surface for homogeneously aligned liquid crystals using various ion beam exposure angles. <i>Liquid Crystals</i> , 2010, 37, 1133-1138.	2.2	6
131	Vertically Aligned Liquid Crystal Molecules on TiO <sub>2</sub> Film Treated by Ion-Beam Irradiation. <i>Japanese Journal of Applied Physics</i> , 2010, 49, 080220.	1.5	1
132	Homogeneous liquid crystal orientation on ion beam exposure TiO <sub>2</sub> surfaces depending on an anisotropic dipole field. <i>Liquid Crystals</i> , 2010, 37, 279-284.	2.2	7
133	Continuous Pretilt Angle Controlled No-Bias-Bend Pi Cell via Blended Polyimide Liquid Crystal System. <i>Molecular Crystals and Liquid Crystals</i> , 2010, 529, 102-108.	0.9	5
134	High Pretilt Angle Effects on Electro-Optical Property of Ion-Beam Irradiated Liquid Crystal Cells on a Blended Polyimide Surface. <i>Ferroelectrics</i> , 2010, 394, 8-15.	0.6	3
135	Surface oxidation and charge transfer inducing dipole-dipole interactions for homogeneous liquid crystal orientation. <i>Journal Physics D: Applied Physics</i> , 2010, 43, 225302.	2.8	1
136	Superior optical properties of homogeneous liquid crystal alignment on a tin (IV) oxide surface sequentially modulated via ion beam irradiation. <i>Optics Express</i> , 2010, 18, 21594.	3.4	24
137	Liquid crystal alignment on a ZrO <sub>2</sub> thin film as a function of ion beam incident angle. <i>Liquid Crystals</i> , 2010, 37, 1381-1384.	2.2	4
138	Liquid Crystal Alignment at Low Temperatures in Flexible Liquid Crystal Displays. <i>Journal of the Electrochemical Society</i> , 2010, 157, J351.	2.9	8
139	Selective liquid crystal molecule orientation on ion beam irradiated tantalum oxide ultrathin films. <i>Applied Physics Letters</i> , 2009, 95, 123503.	3.3	20
140	Organic Thin Film Transistors Fabricated with Soluble Pentacene Active Channel Layer and NiOxElectrodes. <i>Molecular Crystals and Liquid Crystals</i> , 2009, 499, 276/[598]-281/[603].	0.9	0
141	Application of High Work Function Anode for Organic Light Emitting Diode. <i>Molecular Crystals and Liquid Crystals</i> , 2009, 514, 115/[445]-121/[451].	0.9	3
142	Multidirectional Alignment of Liquid Crystals on Polystyrene Surface. <i>Japanese Journal of Applied Physics</i> , 2009, 48, 120220.	1.5	2
143	Study of a liquid crystal structure with improved electro-optical characteristics. <i>Journal of Applied Physics</i> , 2009, 105, .	2.5	8
144	Effect of ion beam irradiation and rubbing on the directional behavior and alignment mechanism of liquid crystals on polyimide surfaces. <i>Journal of Applied Physics</i> , 2009, 105, 014507.	2.5	8

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145	Vertical alignment of liquid crystals on a fully oxidized HfO <sub>2</sub> surface by ion bombardment. Applied Physics Letters, 2009, 94, .	3.3	34
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