

# Yi-Hsin Lin

## List of Publications by Year in descending order

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130  
papers

3,612  
citations

109321

35  
h-index

149698

56  
g-index

131  
all docs

131  
docs citations

131  
times ranked

1487  
citing authors

#	ARTICLE	IF	CITATIONS
1	Optically isotropic nano-size encapsulation of nematic liquid crystals with a high-filling factor. <i>Journal of Molecular Liquids</i> , 2022, 359, 119254.	4.9	2
2	Liquid crystal lens set in augmented reality systems and virtual reality systems for rapidly varifocal images and vision correction. <i>Optics Express</i> , 2022, 30, 22768.	3.4	8
3	Liquid crystal technology for vergence-accommodation conflicts in augmented reality and virtual reality systems: a review. <i>Liquid Crystals Reviews</i> , 2021, 9, 35-64.	4.1	31
4	Electrically tunable polarization independent liquid crystal lenses based on orthogonally anisotropic orientations on adjacent micro-domains. <i>Optics Express</i> , 2021, 29, 29215.	3.4	7
5	Dynamics of water condensation on a switchable surface originated from molecular orientations. <i>Physical Review E</i> , 2021, 104, 034701.	2.1	0
6	Optical measurement in a curved optical medium with optical birefringence and anisotropic absorption. <i>Optics Express</i> , 2021, 29, 38654.	3.4	4
7	Origin of oblique optical axis of electrically tunable focusing lenses arising from initial anisotropic molecular tilts under a symmetric electric field. I. <i>AIP Advances</i> , 2020, 10, .	1.3	6
8	Phase modulators with tunability in wavefronts and optical axes originating from anisotropic molecular tilts under symmetric electric field II: experiments. <i>Optics Express</i> , 2020, 28, 8985.	3.4	10
9	Polarization aberrations of electrically tunable liquid crystal mirrors. <i>Optics Express</i> , 2020, 28, 11356.	3.4	4
10	Varifocal augmented reality adopting electrically tunable uniaxial plane-parallel plates. <i>Optics Express</i> , 2020, 28, 23023.	3.4	8
11	An optical system for augmented reality with electrically tunable optical zoom function and image registration exploiting liquid crystal lenses. <i>Optics Express</i> , 2019, 27, 21163.	3.4	24
12	Electrically tunable gradient-index lenses via nematic liquid crystals with a method of spatially extended phase distribution. <i>Optics Express</i> , 2019, 27, 32398.	3.4	18
13	An optical system via liquid crystal photonic devices for photobiomodulation. <i>Scientific Reports</i> , 2018, 8, 4251.	3.3	9
14	Liquid Crystal Based Terahertz Phase Shifter with Bi-Layer Structure. , 2018, , .		0
15	Helical pitch-dependent electro-optics of optically high transparent nano-phase separated liquid crystals. <i>Optics Express</i> , 2018, 26, 27368.	3.4	8
16	Reflective Liquid Crystal Lenses with Electrically Anisotropic Wavefront Modulation. , 2018, , .		0
17	Multidimensional Integral Imaging and Recognition in Degraded Environments. , 2018, , .		0
18	Electrically Tunable Liquid Crystal Lenses for Augmented Reality. , 2018, , .		1

#	ARTICLE	IF	CITATIONS
19	Invited Paper: Liquid Crystal Lenses in Augmented Reality. Digest of Technical Papers SID International Symposium, 2017, 48, 230-233.	0.3	4
20	Augmented reality with image registration, vision correction and sunlight readability via liquid crystal devices. Scientific Reports, 2017, 7, 433.	3.3	37
21	Liquid crystal lenses with tunable focal length. Liquid Crystals Reviews, 2017, 5, 111-143.	4.1	192
22	Origins of Kerr phase and orientational phase in polymer-dispersed liquid crystals. Optics Express, 2017, 25, 19807.	3.4	24
23	Origins of Kerr phase and orientational phase in polymer-dispersed liquid crystal. , 2017, , .		0
24	An optical image stabilisation using a droplet manipulation on a liquid crystal and polymer composite film. Liquid Crystals, 2016, 43, 2002-2008.	2.2	0
25	Influence of alignment layers on crystal growth of polymer-stabilized blue phase liquid crystals. Optical Materials Express, 2016, 6, 1003.	3.0	21
26	Electrically adjustable location of a projected image in augmented reality via a liquid-crystal lens. Optics Express, 2015, 23, 28154.	3.4	75
27	Extended depth-of-focus 3D micro integral imaging display using a bifocal liquid crystal lens. Optics Letters, 2015, 40, 538.	3.3	77
28	A Polarizer-Free Liquid Crystal Lens Exploiting an Embedded-Multilayered Structure. IEEE Photonics Technology Letters, 2015, 27, 899-902.	2.5	32
29	A liquid crystal and polymer composite film for liquid crystal lenses. , 2015, , .		1
30	An electrically-tunable liquid crystal lens coupler for the fiber communication systems. Proceedings of SPIE, 2015, , .	0.8	1
31	A polarized liquid crystal lens with electrically-switching mode and optically-written mode. Proceedings of SPIE, 2015, , .	0.8	0
32	Electrically tunable microlens arrays based on polarization-independent optical phase of nano liquid crystal droplets dispersed in polymer matrix. Optics Express, 2015, 23, 17337.	3.4	25
33	A polarized bifocal switch based on liquid crystals operated electrically and optically. Journal of Applied Physics, 2015, 117, 044502.	2.5	8
34	An optical system adopting liquid crystals with electrical tunability of wavelength and energy density for low level light therapy. , 2015, , .		0
35	Extended depth-of-field 3D endoscopy with synthetic aperture integral imaging using an electrically tunable focal-length liquid-crystal lens. Optics Letters, 2015, 40, 3564.	3.3	60
36	Simulation Study on Polarization-Independent Microlens Arrays Utilizing Blue Phase Liquid Crystals with Spatially-Distributed Kerr Constants. Micromachines, 2014, 5, 859-867.	2.9	1

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37	39.4: <i>Invited Paper</i>: Liquid Crystals for Ophthalmic Lenses and Biosensing Applications. Digest of Technical Papers SID International Symposium, 2014, 45, 563-566.	0.3	1
38	An Electrically Tunable Polarizer for a Fiber System Based on a Polarization-Dependent Beam Size Derived From a Liquid Crystal Lens. IEEE Photonics Journal, 2014, 6, 1-8.	2.0	4
39	Electrically assisting crystal growth of blue phase liquid crystals. Optical Materials Express, 2014, 4, 953.	3.0	19
40	An electrically tunable imaging system with separable focus and zoom functions using composite liquid crystal lenses. Optics Express, 2014, 22, 11427.	3.4	29
41	A large bistable negative lens by integrating a polarization switch with a passively anisotropic focusing element. Optics Express, 2014, 22, 13138.	3.4	25
42	Electrically Tunable Ophthalmic Lenses for Myopia and Presbyopia Using Liquid Crystals. Molecular Crystals and Liquid Crystals, 2014, 596, 88-96.	0.9	8
43	Large aperture and polarizer-free liquid crystal lenses for ophthalmic applications. Proceedings of SPIE, 2014, , .	0.8	3
44	A Holographic Projection System With an Electrically Adjustable Optical Zoom and a Fixed Location of Zeroth-Order Diffraction. Journal of Display Technology, 2014, 10, 450-455.	1.2	22
45	Electrically Tunable Liquid Crystal Lenses and Applications. Molecular Crystals and Liquid Crystals, 2014, 596, 12-21.	0.9	16
46	Near-infrared sensitive photorefractive device using polymer dispersed liquid crystal and BSO:Ru hybrid structure. Optics Letters, 2014, 39, 3320.	3.3	10
47	Tunable liquid crystal lens for a holographic projection system. , 2013, , .		2
48	An electrically tunable depth-of-field endoscope using a liquid crystal lens as an active focusing element. Proceedings of SPIE, 2013, , .	0.8	0
49	An electrically tunable optical zoom system with separated focusing and zooming functions. , 2013, , .		1
50	Electrically tunable-focusing and polarizer-free liquid crystal lenses for ophthalmic applications. Optics Express, 2013, 21, 9428.	3.4	107
51	An endoscopic system adopting a liquid crystal lens with an electrically tunable depth-of-field. Optics Express, 2013, 21, 18079.	3.4	75
52	A droplet manipulation on a liquid crystal and polymer composite film as a concentrator and a sun tracker for a concentrating photovoltaic system. Journal of Applied Physics, 2013, 113, .	2.5	17
53	A Sperm Testing Device on a Liquid Crystal and Polymer Composite Film. Journal of Nanomedicine & Nanotechnology, 2013, 04, .	1.1	6
54	Electrically-tunable optical zoom system by using liquid crystal lenses. , 2012, , .		1

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55	An electrically tunable-focusing liquid crystal lens with a low voltage and simple electrodes. Optics Express, 2012, 20, 2045.	3.4	84
56	A holographic projection system with an electrically tuning and continuously adjustable optical zoom. Optics Express, 2012, 20, 27222.	3.4	59
57	Hysteresis-free polymer-stabilized blue phase liquid crystals using thermal recycles. Optical Materials Express, 2012, 2, 1149.	3.0	42
58	An experimental investigation of electrically induced-birefringence of Kerr effect in polymer-stabilized blue phase liquid crystals resulting from orientations of liquid crystals. Applied Physics Letters, 2012, 101, 093501.	3.3	5
59	An electrically switchable surface free energy on a liquid crystal and polymer composite film. Applied Physics Letters, 2012, 101, 233502.	3.3	21
60	A concentration photovoltaic system adopting a liquid crystal light modulation. , 2012, , .		0
61	A polarization-independent liquid crystal phase modulation using polymer-network liquid crystal with orthogonal alignment layers. , 2012, , .		0
62	A reflective polarizer-free display using dye-doped polymer-stabilized blue-phase liquid crystals. Journal of the Society for Information Display, 2012, 20, 333-336.	2.1	11
63	A Pico Projection System With Electrically Tunable Optical Zoom Ratio Adopting Two Liquid Crystal Lenses. Journal of Display Technology, 2012, 8, 401-404.	1.2	24
64	Concentrating Photovoltaic System Using a Liquid Crystal Lens. IEEE Photonics Technology Letters, 2012, 24, 2239-2242.	2.5	23
65	A polarization-independent liquid crystal phase modulation using polymer-network liquid crystals in a 90° twisted cell. Journal of Applied Physics, 2012, 112, .	2.5	22
66	AN ELECTRICALLY TUNABLE FOCUSING PICO PROJECTION SYSTEM BASED ON A LIQUID CRYSTAL LENS ADOPTING A LIQUID CRYSTAL AND POLYMER COMPOSITE FILM. Journal of Nonlinear Optical Physics and Materials, 2011, 20, 477-484.	1.8	4
67	A reflective polarizer-free electro-optical switch using dye-doped polymer-stabilized blue phase liquid crystals. Optics Express, 2011, 19, 2556.	3.4	32
68	An electrically tunable optical zoom system using two composite liquid crystal lenses with a large zoom ratio. Optics Express, 2011, 19, 4714.	3.4	93
69	P49: A Reflective Polarizer-Free Display Using Dye-Doped Polymer-Stabilized Blue Phase Liquid Crystals. Digest of Technical Papers SID International Symposium, 2011, 42, 1667-1670.	0.3	0
70	P187: An Electrically Tunable Focusing LCOS Pico Projector Using a Liquid-Crystal Lens. Digest of Technical Papers SID International Symposium, 2011, 42, 1804-1807.	0.3	0
71	An electrically tunable LCOS pico projector with optical zoom. , 2011, , .		0
72	A polarization independent liquid crystal phase modulation adopting surface pinning effect of polymer dispersed liquid crystals. Journal of Applied Physics, 2011, 110, .	2.5	23

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73	Measuring electric-field-induced birefringence in polymer stabilized blue-phase liquid crystals based on phase shift measurements. <i>Journal of Applied Physics</i> , 2011, 109, 104503.	2.5	17
74	An electrically tunable focusing liquid crystal lens with a built-in planar polymeric lens. <i>Applied Physics Letters</i> , 2011, 98, .	3.3	49
75	A polarization independent liquid crystal microlens arrays adopting surface pinning effect of polymer dispersed liquid crystals. , 2011, , .		0
76	A polarizer-free, color-filter-free, bistable and reflective display using a liquid crystal and polymer composite film. , 2011, , .		0
77	A Review of Electrically Tunable Focusing Liquid Crystal Lenses. <i>Transactions on Electrical and Electronic Materials</i> , 2011, 12, 234-240.	1.9	130
78	P&aacute;l 44: A Reflective Polarizer&aacute;free, Color&aacute;filter&aacute;free, and Bistable Display Using a Droplet Manipulation on a Liquid Crystal and Polymer Composite Film. <i>Digest of Technical Papers SID International Symposium</i> , 2010, 41, 1689-1692.	0.3	0
79	Electrically surface-driven switchable wettability of liquid crystal/polymer composite film. <i>Applied Physics Letters</i> , 2010, 96, 131902.	3.3	10
80	Characteristics of Electrically Switchable Wettability Surfaces of Liquid Crystal and Polymer Composite Films. <i>Japanese Journal of Applied Physics</i> , 2010, 49, 071604.	1.5	4
81	An Electrically Tunable Focusing Pico-Projector Adopting a Liquid Crystal Lens. <i>Japanese Journal of Applied Physics</i> , 2010, 49, 102502.	1.5	54
82	Polarizer-free and fast response microlens arrays using polymer-stabilized blue phase liquid crystals. <i>Applied Physics Letters</i> , 2010, 96, .	3.3	216
83	A fast response and large electrically tunable-focusing imaging system based on switching of two modes of a liquid crystal lens. <i>Applied Physics Letters</i> , 2010, 97, 063505.	3.3	64
84	A bistable polarizer-free electro-optical switch using a droplet manipulation on a liquid crystal and polymer composite film. <i>Optics Express</i> , 2010, 18, 10104.	3.4	43
85	Thermally induced light leakage in in-plane-switching liquid crystal displays. <i>Journal of Applied Physics</i> , 2009, 105, 033503.	2.5	11
86	A polarizer-free three step switch using distinct dye-doped liquid crystal gels. <i>Applied Physics Letters</i> , 2009, 94, .	3.3	23
87	Polarizer-Free Gradient Dye-Doped Liquid Crystal Gels. <i>Molecular Crystals and Liquid Crystals</i> , 2009, 511, 309/[1779]-318/[1788].	0.9	1
88	A Polarizer-Free Electro-Optical Switch Using Dye-Doped Liquid Crystal Gels. <i>Materials</i> , 2009, 2, 1662-1673.	2.9	15
89	37.3: Smart Transflective Display Integrated with PDLC and OPV&aacute;Embedded&aacute;OLED. <i>Digest of Technical Papers SID International Symposium</i> , 2009, 40, 530-531.	0.3	1
90	Flexible and reflective polarizer-free liquid crystal displays using dye-doped liquid crystal gels. , 2008, , .		8

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91	<i>In Situ</i> Observation of Fringing-Field-Induced Phase Separation in a Liquid-Crystal Monomer Mixture. <i>Physical Review Letters</i> , 2008, 100, 117801.	7.8	36
92	A polarizer-free flexible and reflective electro-optical switch using dye-doped liquid crystal gels. <i>Optics Express</i> , 2008, 16, 1777.	3.4	57
93	Electrically tunable wettability of liquid crystal/polymer composite films. <i>Optics Express</i> , 2008, 16, 17591.	3.4	30
94	P168: Reflective Type Polarizer-Free Flexible Displays Using Dye-Doped Nematic Liquid Crystal Gels. <i>Digest of Technical Papers SID International Symposium</i> , 2008, 39, 1830-1832.	0.3	2
95	Single glass substrate liquid crystal device using electric field-enforced phase separation and photoinduced polymerization. <i>Applied Physics Letters</i> , 2007, 90, 191105.	3.3	14
96	Polarizer-free liquid crystal displays. , 2007, , .		1
97	P-131: Polarization Independent and Fast Response Phase Modulators Using Orthogonally Orientated Liquid Crystal Gels. <i>Digest of Technical Papers SID International Symposium</i> , 2006, 37, 691.	0.3	0
98	Linear to axial or radial polarization conversion using a liquid crystal gel. <i>Applied Physics Letters</i> , 2006, 89, 051114.	3.3	67
99	Molecular Alignment of Axially-Symmetric Sheared Polymer Network Liquid Crystals. <i>Molecular Crystals and Liquid Crystals</i> , 2006, 454, 343/[745]-354/[756].	0.9	2
100	IPS-LCD Using a Glass Substrate and an Anisotropic Polymer Film. <i>Journal of Display Technology</i> , 2006, 2, 21-25.	1.2	33
101	P-140: Simultaneous Phase Retardation and Optic Axis Measurements of A- and C-Plates. <i>Digest of Technical Papers SID International Symposium</i> , 2006, 37, 732.	0.3	0
102	7.2: Tandem OLED and Reflective LCD with a Microlens Array. <i>Digest of Technical Papers SID International Symposium</i> , 2006, 37, 68.	0.3	3
103	P-152: High Performance Reflective and Transflective Displays Using Guest-Host Liquid Crystal Gels. <i>Digest of Technical Papers SID International Symposium</i> , 2006, 37, 780.	0.3	8
104	A new method for simultaneous measurement of phase retardation and optical axis of a compensation film. , 2006, 6135, 32.		0
105	Flat polymeric microlens array. <i>Optics Communications</i> , 2006, 261, 296-299.	2.1	29
106	Polarization-independent and fast-response phase modulators using double-layered liquid crystal gels. <i>Applied Physics Letters</i> , 2006, 88, 061123.	3.3	38
107	Adaptive lens using liquid crystal concentration redistribution. <i>Applied Physics Letters</i> , 2006, 88, 191116.	3.3	19
108	High Contrast and Fast Response Polarization-Independent Reflective Display Using a Dye-Doped Dual-Frequency Liquid Crystal Gel. <i>Molecular Crystals and Liquid Crystals</i> , 2006, 453, 371-378.	0.9	22

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109	Sheared polymer network liquid crystal for fast-response variable optical attenuators. , 2005, , .		0
110	Tunable-focus microlens arrays using nanosized polymer-dispersed liquid crystal droplets. Optics Communications, 2005, 247, 101-106.	2.1	118
111	Tunable-Focus Cylindrical Liquid Crystal Lenses. Japanese Journal of Applied Physics, 2005, 44, 243-244.	1.5	53
112	Polarization-independent and fast-response phase modulation using a normal-mode polymer-stabilized cholesteric texture. Journal of Applied Physics, 2005, 98, 043112.	2.5	37
113	Polarization-independent phase modulation of a homeotropic liquid crystal gel. Applied Physics Letters, 2005, 87, 191106.	3.3	25
114	Polarization-independent phase modulation using a polymer-dispersed liquid crystal. Applied Physics Letters, 2005, 86, 141110.	3.3	118
115	Variable optical attenuator with a polymer-stabilized dual-frequency liquid crystal. Applied Optics, 2005, 44, 4394.	2.1	16
116	Reflective Direct-View Displays Using a Dye-Doped Dual-Frequency Liquid Crystal Gel. Journal of Display Technology, 2005, 1, 230-233.	1.2	33
117	Pinning effect on the phase separation dynamics of thin polymer-dispersed liquid crystals. Optics Express, 2005, 13, 468.	3.4	35
118	Axially-symmetric sheared polymer network liquid crystals. Optics Express, 2005, 13, 4638.	3.4	42
119	Simultaneous measurement of phase retardation and optic axis of a phase compensation film using an axially-symmetric sheared polymer network liquid crystal. Optics Express, 2005, 13, 7045.	3.4	9
120	Polarization-independent liquid crystal phase modulator using a thin polymer-separated double-layered structure. Optics Express, 2005, 13, 8746.	3.4	87
121	High ambient-contrast-ratio display using tandem reflective liquid crystal display and organic light-emitting device. Optics Express, 2005, 13, 9431.	3.4	61
122	Hermaphroditic liquid-crystal microlens. Optics Letters, 2005, 30, 376.	3.3	20
123	Refractive-index matching between liquid crystals and photopolymers. Journal of the Society for Information Display, 2005, 13, 1017.	2.1	74
124	Single-substrate IPS-LCD using an anisotropic polymer film. , 2005, , .		7
125	High contrast polymer-dispersed liquid crystal in a 90° twisted cell. Applied Physics Letters, 2004, 84, 4083-4085.	3.3	90
126	Fast-response and scattering-free polymer network liquid crystals for infrared light modulators. Applied Physics Letters, 2004, 84, 1233-1235.	3.3	129



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127	Dual-frequency liquid crystal gels with submillisecond response time. Applied Physics Letters, 2004, 85, 2451-2453.	3.3	60
128	Variable optical attenuator based on polymer stabilized twisted nematic liquid crystal. Optics Express, 2004, 12, 1221.	3.4	55
129	Submillisecond response variable optical attenuator based on sheared polymer network liquid crystal. Optics Express, 2004, 12, 6382.	3.4	42
130	P-94: Twisted PDLC for High Contrast Reflective Displays. Digest of Technical Papers SID International Symposium, 2004, 35, 614.	0.3	1