

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
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131
all docs

131
docs citations

131
times ranked

1487
citing authors

#	ARTICLE	IF	CITATIONS
1	Polarizer-free and fast response microlens arrays using polymer-stabilized blue phase liquid crystals. Applied Physics Letters, 2010, 96, .	3.3	216
2	Liquid crystal lenses with tunable focal length. Liquid Crystals Reviews, 2017, 5, 111-143.	4.1	192
3	A Review of Electrically Tunable Focusing Liquid Crystal Lenses. Transactions on Electrical and Electronic Materials, 2011, 12, 234-240.	1.9	130
4	Fast-response and scattering-free polymer network liquid crystals for infrared light modulators. Applied Physics Letters, 2004, 84, 1233-1235.	3.3	129
5	Tunable-focus microlens arrays using nanosized polymer-dispersed liquid crystal droplets. Optics Communications, 2005, 247, 101-106.	2.1	118
6	Polarization-independent phase modulation using a polymer-dispersed liquid crystal. Applied Physics Letters, 2005, 86, 141110.	3.3	118
7	Electrically tunable-focusing and polarizer-free liquid crystal lenses for ophthalmic applications. Optics Express, 2013, 21, 9428.	3.4	107
8	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
9	High contrast polymer-dispersed liquid crystal in a 90° twisted cell. Applied Physics Letters, 2004, 84, 4083-4085.	3.3	90
10	Polarization-independent liquid crystal phase modulator using a thin polymer-separated double-layered structure. Optics Express, 2005, 13, 8746.	3.4	87
11	An electrically tunable-focusing liquid crystal lens with a low voltage and simple electrodes. Optics Express, 2012, 20, 2045.	3.4	84
12	Extended depth-of-focus 3D micro integral imaging display using a bifocal liquid crystal lens. Optics Letters, 2015, 40, 538.	3.3	77
13	An endoscopic system adopting a liquid crystal lens with an electrically tunable depth-of-field. Optics Express, 2013, 21, 18079.	3.4	75
14	Electrically adjustable location of a projected image in augmented reality via a liquid-crystal lens. Optics Express, 2015, 23, 28154.	3.4	75
15	Refractive-index matching between liquid crystals and photopolymers. Journal of the Society for Information Display, 2005, 13, 1017.	2.1	74
16	Linear to axial or radial polarization conversion using a liquid crystal gel. Applied Physics Letters, 2006, 89, 051114.	3.3	67
17	A fast response and large electrically tunable-focusing imaging system based on switching of two modes of a liquid crystal lens. Applied Physics Letters, 2010, 97, 063505.	3.3	64
18	High ambient-contrast-ratio display using tandem reflective liquid crystal display and organic light-emitting device. Optics Express, 2005, 13, 9431.	3.4	61

#	ARTICLE	IF	CITATIONS
19	Dual-frequency liquid crystal gels with submillisecond response time. Applied Physics Letters, 2004, 85, 2451-2453.	3.3	60
20	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
21	A holographic projection system with an electrically tuning and continuously adjustable optical zoom. Optics Express, 2012, 20, 27222.	3.4	59
22	A polarizer-free flexible and reflective electro-optical switch using dye-doped liquid crystal gels. Optics Express, 2008, 16, 1777.	3.4	57
23	Variable optical attenuator based on polymer stabilized twisted nematic liquid crystal. Optics Express, 2004, 12, 1221.	3.4	55
24	An Electrically Tunable Focusing Pico-Projector Adopting a Liquid Crystal Lens. Japanese Journal of Applied Physics, 2010, 49, 102502.	1.5	54
25	Tunable-Focus Cylindrical Liquid Crystal Lenses. Japanese Journal of Applied Physics, 2005, 44, 243-244.	1.5	53
26	An electrically tunable focusing liquid crystal lens with a built-in planar polymeric lens. Applied Physics Letters, 2011, 98, .	3.3	49
27	A bistable polarizer-free electro-optical switch using a droplet manipulation on a liquid crystal and polymer composite film. Optics Express, 2010, 18, 10104.	3.4	43
28	Submillisecond response variable optical attenuator based on sheared polymer network liquid crystal. Optics Express, 2004, 12, 6382.	3.4	42
29	Axially-symmetric sheared polymer network liquid crystals. Optics Express, 2005, 13, 4638.	3.4	42
30	Hysteresis-free polymer-stabilized blue phase liquid crystals using thermal recycles. Optical Materials Express, 2012, 2, 1149.	3.0	42
31	Polarization-independent and fast-response phase modulators using double-layered liquid crystal gels. Applied Physics Letters, 2006, 88, 061123.	3.3	38
32	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
33	Augmented reality with image registration, vision correction and sunlight readability via liquid crystal devices. Scientific Reports, 2017, 7, 433.	3.3	37
34	<i>In Situ</i> Observation of Fringing-Field-Induced Phase Separation in a Liquid-Crystal "Monomer Mixture. Physical Review Letters, 2008, 100, 117801.	7.8	36
35	Pinning effect on the phase separation dynamics of thin polymer-dispersed liquid crystals. Optics Express, 2005, 13, 468.	3.4	35
36	Reflective Direct-View Displays Using a Dye-Doped Dual-Frequency Liquid Crystal Gel. Journal of Display Technology, 2005, 1, 230-233.	1.2	33

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37	IPS-LCD Using a Glass Substrate and an Anisotropic Polymer Film. Journal of Display Technology, 2006, 2, 21-25.	1.2	33
38	A reflective polarizer-free electro-optical switch using dye-doped polymer-stabilized blue phase liquid crystals. Optics Express, 2011, 19, 2556.	3.4	32
39	A Polarizer-Free Liquid Crystal Lens Exploiting an Embedded-Multilayered Structure. IEEE Photonics Technology Letters, 2015, 27, 899-902.	2.5	32
40	Liquid crystal technology for vergence-accommodation conflicts in augmented reality and virtual reality systems: a review. Liquid Crystals Reviews, 2021, 9, 35-64.	4.1	31
41	Electrically tunable wettability of liquid crystal/polymer composite films. Optics Express, 2008, 16, 17591.	3.4	30
42	Flat polymeric microlens array. Optics Communications, 2006, 261, 296-299.	2.1	29
43	An electrically tunable imaging system with separable focus and zoom functions using composite liquid crystal lenses. Optics Express, 2014, 22, 11427.	3.4	29
44	Polarization-independent phase modulation of a homeotropic liquid crystal gel. Applied Physics Letters, 2005, 87, 191106.	3.3	25
45	A large bistable negative lens by integrating a polarization switch with a passively anisotropic focusing element. Optics Express, 2014, 22, 13138.	3.4	25
46	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
47	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
48	Origins of Kerr phase and orientational phase in polymer-dispersed liquid crystals. Optics Express, 2017, 25, 19807.	3.4	24
49	An optical system for augmented reality with electrically tunable optical zoom function and image registration exploiting liquid crystal lenses. Optics Express, 2019, 27, 21163.	3.4	24
50	A polarizer-free three step switch using distinct dye-doped liquid crystal gels. Applied Physics Letters, 2009, 94, .	3.3	23
51	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
52	Concentrating Photovoltaic System Using a Liquid Crystal Lens. IEEE Photonics Technology Letters, 2012, 24, 2239-2242.	2.5	23
53	High Contrast and Fast Response Polarization-Independent Reflective Display Using a Dye-Doped Dual-Frequency Liquid Crystal Gel. Molecular Crystals and Liquid Crystals, 2006, 453, 371-378.	0.9	22
54	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

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55	A Holographic Projection System With an Electrically Adjustable Optical Zoom and a Fixed Location of Zeroth-Order Diffraction. <i>Journal of Display Technology</i> , 2014, 10, 450-455.	1.2	22
56	An electrically switchable surface free energy on a liquid crystal and polymer composite film. <i>Applied Physics Letters</i> , 2012, 101, 233502.	3.3	21
57	Influence of alignment layers on crystal growth of polymer-stabilized blue phase liquid crystals. <i>Optical Materials Express</i> , 2016, 6, 1003.	3.0	21
58	Hermaphroditic liquid-crystal microlens. <i>Optics Letters</i> , 2005, 30, 376.	3.3	20
59	Adaptive lens using liquid crystal concentration redistribution. <i>Applied Physics Letters</i> , 2006, 88, 191116.	3.3	19
60	Electrically assisting crystal growth of blue phase liquid crystals. <i>Optical Materials Express</i> , 2014, 4, 953.	3.0	19
61	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
62	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
63	A droplet manipulation on a liquid crystal and polymer composite film as a concentrator and a sun tracker for a concentrating photovoltaic system. <i>Journal of Applied Physics</i> , 2013, 113, .	2.5	17
64	Variable optical attenuator with a polymer-stabilized dual-frequency liquid crystal. <i>Applied Optics</i> , 2005, 44, 4394.	2.1	16
65	Electrically Tunable Liquid Crystal Lenses and Applications. <i>Molecular Crystals and Liquid Crystals</i> , 2014, 596, 12-21.	0.9	16
66	A Polarizer-Free Electro-Optical Switch Using Dye-Doped Liquid Crystal Gels. <i>Materials</i> , 2009, 2, 1662-1673.	2.9	15
67	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
68	Thermally induced light leakage in in-plane-switching liquid crystal displays. <i>Journal of Applied Physics</i> , 2009, 105, 033503.	2.5	11
69	A reflective polarizer-free display using dye-doped polymer-stabilized blue-phase liquid crystals. <i>Journal of the Society for Information Display</i> , 2012, 20, 333-336.	2.1	11
70	Electrically surface-driven switchable wettability of liquid crystal/polymer composite film. <i>Applied Physics Letters</i> , 2010, 96, 131902.	3.3	10
71	Near-infrared sensitive photorefractive device using polymer dispersed liquid crystal and BSO:Ru hybrid structure. <i>Optics Letters</i> , 2014, 39, 3320.	3.3	10
72	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

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73	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
74	An optical system via liquid crystal photonic devices for photobiomodulation. Scientific Reports, 2018, 8, 4251.	3.3	9
75	P-152: High Performance Reflective and Transflective Displays Using Guest-Host Liquid Crystal Gels. Digest of Technical Papers SID International Symposium, 2006, 37, 780.	0.3	8
76	Flexible and reflective polarizer-free liquid crystal displays using dye-doped liquid crystal gels. , 2008, , .		8
77	Electrically Tunable Ophthalmic Lenses for Myopia and Presbyopia Using Liquid Crystals. Molecular Crystals and Liquid Crystals, 2014, 596, 88-96.	0.9	8
78	A polarized bifocal switch based on liquid crystals operated electrically and optically. Journal of Applied Physics, 2015, 117, 044502.	2.5	8
79	Helical pitch-dependent electro-optics of optically high transparent nano-phase separated liquid crystals. Optics Express, 2018, 26, 27368.	3.4	8
80	Varifocal augmented reality adopting electrically tunable uniaxial plane-parallel plates. Optics Express, 2020, 28, 23023.	3.4	8
81	Liquid crystal lens set in augmented reality systems and virtual reality systems for rapidly varifocal images and vision correction. Optics Express, 2022, 30, 22768.	3.4	8
82	Single-substrate IPS-LCD using an anisotropic polymer film. , 2005, , .		7
83	Electrically tunable polarization independent liquid crystal lenses based on orthogonally anisotropic orientations on adjacent micro-domains. Optics Express, 2021, 29, 29215.	3.4	7
84	Origin of oblique optical axis of electrically tunable focusing lenses arising from initial anisotropic molecular tilts under a symmetric electric field. I. AIP Advances, 2020, 10, .	1.3	6
85	A Sperm Testing Device on a Liquid Crystal and Polymer Composite Film. Journal of Nanomedicine & Nanotechnology, 2013, 04, .	1.1	6
86	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
87	Characteristics of Electrically Switchable Wettability Surfaces of Liquid Crystal and Polymer Composite Films. Japanese Journal of Applied Physics, 2010, 49, 071604.	1.5	4
88	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
89	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
90	18â€2: <i>Invited Paper</i>: Liquid Crystal Lenses in Augmented Reality. Digest of Technical Papers SID International Symposium, 2017, 48, 230-233.	0.3	4

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91	Polarization aberrations of electrically tunable liquid crystal mirrors. Optics Express, 2020, 28, 11356.	3.4	4
92	Optical measurement in a curved optical medium with optical birefringence and anisotropic absorption. Optics Express, 2021, 29, 38654.	3.4	4
93	7.2: Tandem OLED and Reflective LCD with a Microlens Array. Digest of Technical Papers SID International Symposium, 2006, 37, 68.	0.3	3
94	Large aperture and polarizer-free liquid crystal lenses for ophthalmic applications. Proceedings of SPIE, 2014, , .	0.8	3
95	Molecular Alignment of Axially-Symmetric Sheared Polymer Network Liquid Crystals. Molecular Crystals and Liquid Crystals, 2006, 454, 343/[745]-354/[756].	0.9	2
96	P&A168: Reflective Type Polarizer&A168-Free Flexible Displays Using Dye&A168-Doped Nematic Liquid Crystal Gels. Digest of Technical Papers SID International Symposium, 2008, 39, 1830-1832.	0.3	2
97	Tunable liquid crystal lens for a holographic projection system. , 2013, , .		2
98	Optically isotropic nano-size encapsulation of nematic liquid crystals with a high-filling factor. Journal of Molecular Liquids, 2022, 359, 119254.	4.9	2
99	P-94: Twisted PDLC for High Contrast Reflective Displays. Digest of Technical Papers SID International Symposium, 2004, 35, 614.	0.3	1
100	Polarizer-free liquid crystal displays. , 2007, , .		1
101	Polarizer-Free Gradient Dye-Doped Liquid Crystal Gels. Molecular Crystals and Liquid Crystals, 2009, 511, 309/[1779]-318/[1788].	0.9	1
102	37.3: Smart Transflective Display Integrated with PDLC and OPV&A168-Embedded&A168-OLED. Digest of Technical Papers SID International Symposium, 2009, 40, 530-531.	0.3	1
103	Electrically-tunable optical zoom system by using liquid crystal lenses. , 2012, , .		1
104	An electrically tunable optical zoom system with separated focusing and zooming functions. , 2013, , .		1
105	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
106	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
107	A liquid crystal and polymer composite film for liquid crystal lenses. , 2015, , .		1
108	An electrically-tunable liquid crystal lens coupler for the fiber communication systems. Proceedings of SPIE, 2015, , .	0.8	1

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109	Electrically Tunable Liquid Crystal Lenses for Augmented Reality. , 2018, , .		1
110	Sheared polymer network liquid crystal for fast-response variable optical attenuators. , 2005, , .		0
111	P-131: Polarization Independent and Fast Response Phase Modulators Using Orthogonally Orientated Liquid Crystal Gels. Digest of Technical Papers SID International Symposium, 2006, 37, 691.	0.3	0
112	P-140: Simultaneous Phase Retardation and Optic Axis Measurements of A- and C-Plates. Digest of Technical Papers SID International Symposium, 2006, 37, 732.	0.3	0
113	A new method for simultaneous measurement of phase retardation and optical axis of a compensation film. , 2006, 6135, 32.		0
114	P-144: A Reflective Polarizer-Free, Color-Filter-Free, and Bistable Display Using a Droplet Manipulation on a Liquid Crystal and Polymer Composite Film. Digest of Technical Papers SID International Symposium, 2010, 41, 1689-1692.	0.3	0
115	P-149: 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
116	P-187: 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
117	An electrically tunable LCOS pico projector with optical zoom. , 2011, , .		0
118	A polarization independent liquid crystal microlens arrays adopting surface pinning effect of polymer dispersed liquid crystals. , 2011, , .		0
119	A polarizer-free, color-filter-free, bistable and reflective display using a liquid crystal and polymer composite film. , 2011, , .		0
120	A concentration photovoltaic system adopting a liquid crystal light modulation. , 2012, , .		0
121	A polarization-independent liquid crystal phase modulation using polymer-network liquid crystal with orthogonal alignment layers. , 2012, , .		0
122	An electrically tunable depth-of-field endoscope using a liquid crystal lens as an active focusing element. Proceedings of SPIE, 2013, , .	0.8	0
123	A polarized liquid crystal lens with electrically-switching mode and optically-written mode. Proceedings of SPIE, 2015, , .	0.8	0
124	An optical system adopting liquid crystals with electrical tunability of wavelength and energy density for low level light therapy. , 2015, , .		0
125	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
126	Liquid Crystal Based Terahertz Phase Shifter with Bi-Layer Structure. , 2018, , .		0

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127	Dynamics of water condensation on a switchable surface originated from molecular orientations. Physical Review E, 2021, 104, 034701.	2.1	0
128	Origins of Kerr phase and orientational phase in polymer-dispersed liquid crystal. , 2017, , .		0
129	Reflective Liquid Crystal Lenses with Electrically Anisotropic Wavefront Modulation. , 2018, , .		0
130	Multidimensional Integral Imaging and Recognition in Degraded Environments. , 2018, , .		0