

# Hung-Chang Jau

## List of Publications by Year in descending order

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35  
papers

944  
citations

567281

15  
h-index

454955

30  
g-index

35  
all docs

35  
docs citations

35  
times ranked

738  
citing authors

#	ARTICLE	IF	CITATIONS	
1	Electrotunable 180° achromatic linear polarization rotator based on a dual-frequency liquid crystal. <i>Optics Express</i> , 2022, 30, 4886.	3.4	1	
2	Multifunctional Liquid Crystal Smart Glass with Light Field Shaping, Dimming, and Scattering Control. <i>Advanced Photonics Research</i> , 2022, 3, .	3.6	4	
3	Electrotunable achromatic polarization rotator. <i>Optica</i> , 2021, 8, 364.	9.3	9	
4	Reconfiguration of three-dimensional liquid-crystalline photonic crystals by electrostriction. <i>Nature Materials</i> , 2020, 19, 94-101.	27.5	80	
5	Functional Superhydrophobic Surfaces with Spatially Programmable Adhesion. <i>Polymers</i> , 2020, 12, 2968.	4.5	2	
6	Versatile Energy-Saving Smart Glass Based on Tristable Cholesteric Liquid Crystals. <i>ACS Applied Energy Materials</i> , 2020, 3, 7601-7609.	5.1	59	
7	26.3: <i>Invited Paper:</i> Multifunctional liquid crystal smart window. <i>Digest of Technical Papers SID International Symposium</i> , 2019, 50, 266-266.	0.3	0	
8	Liquid-crystal random fiber laser for speckle-free imaging. <i>Applied Physics Letters</i> , 2019, 114, .	3.3	20	
9	Optically rewritable dynamic phase grating based on blue-phase-templated azobenzene liquid crystal. <i>Optics Express</i> , 2019, 27, 10580.	3.4	14	
10	Optical control of the rotation of cholesteric liquid crystal gratings. <i>Optics Express</i> , 2019, 27, 10806.	3.4	6	
11	43: Tristable Cholesteric Liquid Crystal Smart Window. <i>Digest of Technical Papers SID International Symposium</i> , 2018, 49, 543-545.	0.3	4	
12	74: High-Image-Quality Transparent Display based on AMOLED with Cholesteric Liquid Crystal Back-panel. <i>Digest of Technical Papers SID International Symposium</i> , 2018, 49, 993-995.	0.3	1	
13	Arbitrary Beam Steering Enabled by Photomechanically Bendable Cholesteric Liquid Crystal Polymers. <i>Advanced Optical Materials</i> , 2017, 5, 1600824.	7.3	22	
14	Polarization-asymmetric bidirectional random laser emission from a twisted nematic liquid crystal. <i>Journal of Applied Physics</i> , 2017, 121, 033102.	2.5	12	
15	Large three-dimensional photonic crystals based on monocrystalline liquid crystal blue phases. <i>Nature Communications</i> , 2017, 8, 727.	12.8	69	
16	All-optical transistor- and diode-action and logic gates based on anisotropic nonlinear responsive liquid crystal. <i>Scientific Reports</i> , 2016, 6, 30873.	3.3	18	
17	Optimization of Dynamic Drive Scheme for Cholesteric LCDs. <i>Journal of Display Technology</i> , 2016, 12, 35-39.	1.2	2	
18	Gratings: Light-Driven Wide-Range Nonmechanical Beam Steering and Spectrum Scanning Based on a Self-Organized Liquid Crystal Grating Enabled by a Chiral Molecular Switch ( <i>Advanced Optical</i> )	Tj ETQq0 0 0 rBT /Owrlck 10 Tf 50 57		

#	ARTICLE	IF	CITATIONS
19	Light-Driven Wide-Range Nonmechanical Beam Steering and Spectrum Scanning Based on a Self-Organized Liquid Crystal Grating Enabled by a Chiral Molecular Switch. <i>Advanced Optical Materials</i> , 2015, 3, 166-170.	7.3	61
20	Electric Field-Driven Shifting and Expansion of Photonic Band Gaps in 3D Liquid Photonic Crystals. <i>ACS Photonics</i> , 2015, 2, 1524-1531.	6.6	60
21	Bistable light-driven $\pi$ phase switching using a twisted nematic liquid crystal film. <i>Optics Express</i> , 2014, 22, 12133.	3.4	11
22	Red, Green and Blue Reflections Enabled in an Optically Tunable Self-Organized 3D Cubic Nanostructured Thin Film. <i>Advanced Materials</i> , 2013, 25, 5050-5054.	21.0	158
23	Polarization-independent rapidly responding phase grating based on hybrid blue phase liquid crystal. <i>Journal of Applied Physics</i> , 2013, 113, .	2.5	26
24	Study of electro-optical properties of templated blue phase liquid crystals. <i>Optical Materials Express</i> , 2013, 3, 1516.	3.0	14
25	Improvement of electro-optical properties of PSBP LCD using a double-sided IPS electrode. <i>Journal of the Society for Information Display</i> , 2012, 20, 351-353.	2.1	8
26	Simulation of laser phenomenon of cholesteric liquid crystal using auxiliary differential equation finite-difference time-domain method. , 2012, , .		0
27	Electrical and optical switchings of the directors of cholesteric liquid crystal gratings. , 2012, , .		0
28	Direction switching and beam steering of cholesteric liquid crystal gratings. <i>Applied Physics Letters</i> , 2012, 100, .	3.3	37
29	P-84: Thermal Switchable Bistable Cholesteric-Blue Phase Liquid Crystal Display. <i>Digest of Technical Papers SID International Symposium</i> , 2012, 43, 1379-1381.	0.3	1
30	Photo-rewritable flexible LCD using indium zinc oxide/polycarbonate substrates. <i>Applied Optics</i> , 2011, 50, 213.	2.1	9
31	Influence of Polymerization Temperature on Hysteresis and Residual Birefringence of Polymer Stabilized Blue Phase LCs. <i>Journal of Display Technology</i> , 2011, 7, 615-618.	1.2	31
32	Optically-tunable beam steering grating based on azobenzene doped cholesteric liquid crystal. <i>Optics Express</i> , 2010, 18, 17498.	3.4	41
33	Highly efficient and polarization-independent Fresnel lens based on dye-doped liquid crystal. <i>Optics Express</i> , 2007, 15, 2900.	3.4	79
34	Electrically controllable laser based on cholesteric liquid crystal with negative dielectric anisotropy. <i>Applied Physics Letters</i> , 2006, 88, 061122.	3.3	80
35	27.2: Optically Rewritable Reflective Liquid Crystal Display. <i>Digest of Technical Papers SID International Symposium</i> , 2006, 37, 1257.	0.3	5