

Hung-Chang Jau

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4813203/publications.pdf>

Version: 2024-02-01

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	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
2	Electrically controllable laser based on cholesteric liquid crystal with negative dielectric anisotropy. <i>Applied Physics Letters</i> , 2006, 88, 061122.	3.3	80
3	Reconfiguration of three-dimensional liquid-crystalline photonic crystals by electrostriction. <i>Nature Materials</i> , 2020, 19, 94-101.	27.5	80
4	Highly efficient and polarization-independent Fresnel lens based on dye-doped liquid crystal. <i>Optics Express</i> , 2007, 15, 2900.	3.4	79
5	Large three-dimensional photonic crystals based on monocrystalline liquid crystal blue phases. <i>Nature Communications</i> , 2017, 8, 727.	12.8	69
6	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
7	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
8	Versatile Energy-Saving Smart Glass Based on Tristable Cholesteric Liquid Crystals. <i>ACS Applied Energy Materials</i> , 2020, 3, 7601-7609.	5.1	59
9	Optically-tunable beam steering grating based on azobenzene doped cholesteric liquid crystal. <i>Optics Express</i> , 2010, 18, 17498.	3.4	41
10	Direction switching and beam steering of cholesteric liquid crystal gratings. <i>Applied Physics Letters</i> , 2012, 100, .	3.3	37
11	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
12	Polarization-independent rapidly responding phase grating based on hybrid blue phase liquid crystal. <i>Journal of Applied Physics</i> , 2013, 113, .	2.5	26
13	Arbitrary Beam Steering Enabled by Photomechanically Bendable Cholesteric Liquid Crystal Polymers. <i>Advanced Optical Materials</i> , 2017, 5, 1600824.	7.3	22
14	Liquid-crystal random fiber laser for speckle-free imaging. <i>Applied Physics Letters</i> , 2019, 114, .	3.3	20
15	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
16	Study of electro-optical properties of templated blue phase liquid crystals. <i>Optical Materials Express</i> , 2013, 3, 1516.	3.0	14
17	Optically rewritable dynamic phase grating based on blue-phase-templated azobenzene liquid crystal. <i>Optics Express</i> , 2019, 27, 10580.	3.4	14
18	Polarization-asymmetric bidirectional random laser emission from a twisted nematic liquid crystal. <i>Journal of Applied Physics</i> , 2017, 121, 033102.	2.5	12

#	ARTICLE	IF	CITATIONS
19	Bistable light-driven π phase switching using a twisted nematic liquid crystal film. Optics Express, 2014, 22, 12133.	3.4	11
20	Photo-rewritable flexible LCD using indium zinc oxide/polycarbonate substrates. Applied Optics, 2011, 50, 213.	2.1	9
21	Electrotunable achromatic polarization rotator. Optica, 2021, 8, 364.	9.3	9
22	Improvement of electro-optical properties of PSBP LCD using a double-sided IPS electrode. Journal of the Society for Information Display, 2012, 20, 351-353.	2.1	8
23	Optical control of the rotation of cholesteric liquid crystal gratings. Optics Express, 2019, 27, 10806.	3.4	6
24	27.2: Optically Rewritable Reflective Liquid Crystal Display. Digest of Technical Papers SID International Symposium, 2006, 37, 1257.	0.3	5
25	43-1: Tri-stable Cholesteric Liquid Crystal Smart Window. Digest of Technical Papers SID International Symposium, 2018, 49, 543-545.	0.3	4
26	Multifunctional Liquid Crystal Smart Glass with Light Field Shaping, Dimming, and Scattering Control. Advanced Photonics Research, 2022, 3, .	3.6	4
27	Optimization of Dynamic Drive Scheme for Cholesteric LCDs. Journal of Display Technology, 2016, 12, 35-39.	1.2	2
28	Functional Superhydrophobic Surfaces with Spatially Programmable Adhesion. Polymers, 2020, 12, 2968.	4.5	2
29	P-84: Thermal Switchable Bistable Cholesteric-Blue Phase Liquid Crystal Display. Digest of Technical Papers SID International Symposium, 2012, 43, 1379-1381.	0.3	1
30	74-4: High-Image-Quality Transparent Display based on AMOLED with Cholesteric Liquid Crystal Back-panel. Digest of Technical Papers SID International Symposium, 2018, 49, 993-995.	0.3	1
31	Electrotunable 180° achromatic linear polarization rotator based on a dual-frequency liquid crystal. Optics Express, 2022, 30, 4886.	3.4	1
32	Simulation of laser phenomenon of cholesteric liquid crystal using auxiliary differential equation finite-difference time-domain method. , 2012, , .		0
33	Electrical and optical switchings of the directions of cholesteric liquid crystal gratings. , 2012, , .		0
34	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 (Advanced Optical) Tj ETQq 0 0 rgBT / Overlock 10 Tf 50 137		0
35	26.3: <i>Invited Paper:</i> Multi-functional liquid crystal smart window. Digest of Technical Papers SID International Symposium, 2019, 50, 266-266.	0.3	0