

Chia-Rong Lee

List of Publications by Year in descending order

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79
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citations

361413

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docs citations

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1539
citing authors

#	ARTICLE	IF	CITATIONS
1	Toward Full-Color Tunable Chiroptical Electrothermochromic Devices Based on a Supramolecular Chiral Photonic Material. <i>Advanced Optical Materials</i> , 2021, 9, 2001796.	7.3	19
2	Passively Tunable Terahertz Filters Using Liquid Crystal Cells Coated with Metamaterials. <i>Coatings</i> , 2021, 11, 381.	2.6	9
3	Thermal and optical manipulation of morphology in cholesteric liquid crystal microdroplets constrained on microfibers. <i>Journal of Molecular Liquids</i> , 2021, 328, 115383.	4.9	2
4	Effect of Thicknesses of Liquid Crystal Layers on Shift of Resonance Frequencies of Metamaterials. <i>Coatings</i> , 2021, 11, 578.	2.6	4
5	Micro-Lifting Jack: Heat- and Light-Fueled 3D Symmetric Deformation of Bragg-Onion-Like Beads with Fully Polymerized Chiral Networks. <i>Advanced Optical Materials</i> , 2021, 9, 2100667.	7.3	7
6	Optically Tunable Terahertz Metasurfaces Using Liquid Crystal Cells Coated with Photoalignment Layers. <i>Crystals</i> , 2021, 11, 1100.	2.2	5
7	Control of Large-Area Orderliness of a 2D Supramolecular Chiral Microstructure by a 1D Interference Field. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 44916-44924.	8.0	4
8	Light-Switching Surface Wettability of Chiral Liquid Crystal Networks by Dynamic Change in Nanoscale Topography. <i>Macromolecular Rapid Communications</i> , 2021, , 2100736.	3.9	2
9	Programmable Engineering of Sunlight-Fueled, Full-Wavelength-Tunable, and Chirality-Invertible Helical Superstructures. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 55550-55558.	8.0	12
10	Optically Tunable and Thermally Erasable Terahertz Intensity Modulators Using Dye-Doped Liquid Crystal Cells with Metasurfaces. <i>Crystals</i> , 2021, 11, 1580.	2.2	2
11	Controllable Liquid Crystal Micro Tube Laser. <i>Crystals</i> , 2021, 11, 1510.	2.2	0
12	All-Optical and Polarization-Independent Tunable Guided-Mode Resonance Filter Based on a Dye-Doped Liquid Crystal Incorporated With Photonic Crystal Nanostructure. <i>Journal of Lightwave Technology</i> , 2020, 38, 820-826.	4.6	1
13	All-Optically Controllable Photonic Crystals Based on Chiral-Azobenzene-Doped Blue Phase Liquid Crystals. <i>Crystals</i> , 2020, 10, 906.	2.2	3
14	All-Optical Directional Control of Emission in a Photonic Liquid Crystal Fiber Laser. <i>Journal of Lightwave Technology</i> , 2020, 38, 5149-5156.	4.6	3
15	Bio-inspired design of active photo-mechano-chemically dual-responsive photonic film based on cholesteric liquid crystal elastomers. <i>Journal of Materials Chemistry C</i> , 2020, 8, 5517-5524.	5.5	40
16	Electrically Tunable Liquid-Crystal-Polymer Composite Laser with Symmetric Sandwich Structure. <i>Macromolecules</i> , 2020, 53, 913-921.	4.8	17
17	Continuously tunable intensity modulators with large switching contrasts using liquid crystal elastomer films that are deposited with terahertz metamaterials. <i>Optics Express</i> , 2020, 28, 27676.	3.4	32
18	Enantiomorphic double-polymerized chiral polymer composite template for highly efficient energy-saving green window. <i>Polymer</i> , 2020, 200, 122586.	3.8	1

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19	Micro-/Nanostructure-Stabilized Liquid-Crystalline Blue-Phase. , 2019, , .		0
20	A broadband-tunable photonic bandgap and thermally convertible laser with an ultra-low lasing threshold from a refilled chiral polymer template. <i>Journal of Materials Chemistry C</i> , 2019, 7, 4740-4747.	5.5	18
21	Swelling of polydimethylsiloxane in toluene solutions on electromagnetic resonance of metamaterials. <i>Applied Physics Letters</i> , 2019, 115, .	3.3	3
22	Optically controllable photonic crystals and passively tunable terahertz metamaterials using dye-doped liquid crystal cells. <i>Journal of Materials Chemistry C</i> , 2018, 6, 4959-4966.	5.5	29
23	Microstructure-Stabilized Blue Phase Liquid Crystals. <i>ACS Omega</i> , 2018, 3, 15435-15441.	3.5	14
24	Circular Polarization and Wavelength Selective Gratings Based on Holographic Cholesteric Liquid Crystal Templates. <i>Advances in Condensed Matter Physics</i> , 2018, 2018, 1-8.	1.1	5
25	Wavelength-Tunable and Highly Stable Perovskite-Quantum-Dot-Doped Lasers with Liquid Crystal Lasing Cavities. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 33307-33315.	8.0	62
26	Effect of thin-film interference on resonance spectra of distorted metamaterials. , 2018, , .		0
27	Low-voltage tunable color in full visible region using ferroelectric liquid-crystal-doped cholesteric liquid-crystal smart materials. , 2018, , .		0
28	Wide-band tunable photonic bandgap device and laser in dye-doped liquid crystal refilled cholesteric liquid crystal polymer template system. , 2017, , .		2
29	Temperature-dependent photoluminescence and XPS study of ZnO nanowires grown on flexible Zn foil via thermal oxidation. <i>Superlattices and Microstructures</i> , 2017, 107, 38-43.	3.1	52
30	Bidirectional growth of ZnO nanowires with high optical properties directly on Zn foil. <i>Thin Solid Films</i> , 2017, 621, 102-107.	1.8	7
31	Widely tunable photonic bandgap and lasing emission in enantiomorphic cholesteric liquid crystal templates. <i>Journal of Materials Chemistry C</i> , 2017, 5, 3222-3228.	5.5	22
32	Electrohydrodynamics-Induced Abnormal Electro-Optic Characteristics in a Polymer-Dispersed Liquid Crystal Film. <i>Crystals</i> , 2017, 7, 227.	2.2	1
33	External-Voltage-Free Dielectrophoresis of Liquid Crystal Droplets. <i>Crystals</i> , 2017, 7, 202.	2.2	0
34	Morphological appearances and photo-controllable coloration of dye-doped cholesteric liquid crystal/polymer coaxial microfibers fabricated by coaxial electrospinning technique. <i>Optics Express</i> , 2016, 24, 3112.	3.4	18
35	Synthesis and Optical Properties of Lead-Free Cesium Tin Halide Perovskite Quantum Rods with High-Performance Solar Cell Application. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 5028-5035.	4.6	224
36	Multi-wavelength laser tuning based on cholesteric liquid crystals with nanoparticles. <i>Journal Physics D: Applied Physics</i> , 2016, 49, 165102.	2.8	8

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37	Wide-Band Spatially Tunable Photonic Bandgap in Visible Spectral Range and Laser based on a Polymer Stabilized Blue Phase. <i>Scientific Reports</i> , 2016, 6, 30407.	3.3	19
38	Electrically switchable organo-inorganic hybrid for a white-light laser source. <i>Scientific Reports</i> , 2016, 6, 28363.	3.3	19
39	Polyvinylbutyral assisted synthesis and characterization of kesterite quaternary semiconductor Cu ₂ ZnSnSe ₄ nanofibers by electrospinning route. <i>Solar Energy Materials and Solar Cells</i> , 2016, 151, 24-29.	6.2	5
40	Compositionally controlled band gap and photoluminescence of ZnSSe nanofibers by electrospinning. <i>CrystEngComm</i> , 2015, 17, 4434-4438.	2.6	15
41	Performance evolution of color cone lasing emissions in dye-doped cholesteric liquid crystals at different fabrication conditions. <i>Optics Express</i> , 2015, 23, 10168.	3.4	10
42	Wide-band tunable photonic bandgaps based on nematic-refilling cholesteric liquid crystal polymer template samples. <i>Optical Materials Express</i> , 2015, 5, 1419.	3.0	33
43	Electrically and thermally controllable nanoparticle random laser in a well-aligned dye-doped liquid crystal cell. <i>Optical Materials Express</i> , 2015, 5, 1469.	3.0	34
44	Surface passivation assisted lasing emission in the quantum dots doped cholesteric liquid crystal resonating cavity with polymer template. <i>RSC Advances</i> , 2014, 4, 52804-52807.	3.6	9
45	Spatially tunable photonic bandgap of wide spectral range and lasing emission based on a blue phase wedge cell. <i>Optics Express</i> , 2014, 22, 29479.	3.4	20
46	Photosensitive and all-optically fast-controllable photonic bandgap device and laser in a dye-doped blue phase with a low-concentration azobenzene liquid crystal. <i>Optics Express</i> , 2014, 22, 9171.	3.4	21
47	Thermally tunable liquid crystal distributed feedback laser based on a polymer grating with nanogrooves fabricated by nanoimprint lithography. <i>Optical Materials Express</i> , 2014, 4, 234.	3.0	15
48	Ultralow-threshold single-mode lasing based on a one-dimensional asymmetric photonic bandgap structure with liquid crystal as a defect layer. <i>Optics Letters</i> , 2014, 39, 3516.	3.3	14
49	An optically stable and tunable quantum dot nanocrystal-embedded cholesteric liquid crystal composite laser. <i>Journal of Materials Chemistry C</i> , 2014, 2, 4388-4394.	5.5	54
50	Thermally and Electrically Tunable Lasing Emission and Amplified Spontaneous Emission in a Composite of Inorganic Quantum Dot Nanocrystals and Organic Cholesteric Liquid Crystals. <i>Advanced Optical Materials</i> , 2013, 1, 637-643.	7.3	27
51	Controllable pretilt angle of liquid crystals with the formation of microgrooves. <i>Journal Physics D: Applied Physics</i> , 2013, 46, 045102.	2.8	8
52	Optically tunable/switchable omnidirectionally spherical microlaser based on a dye-doped cholesteric liquid crystal microdroplet with an azo-chiral dopant. <i>Optics Express</i> , 2013, 21, 15765.	3.4	50
53	Electrically tunable prism grating based on a liquid crystal film with a photoconductive layer. <i>Optical Materials Express</i> , 2012, 2, 1791.	3.0	4
54	Unique spatial continuously tunable cone laser based on a dye-doped cholesteric liquid crystal with a birefringence gradient. <i>Applied Physics B: Lasers and Optics</i> , 2012, 109, 159-163.	2.2	7

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55	Electrically and all-optically controllable random lasers based on dye-doped liquid crystal films. Proceedings of SPIE, 2012, , .	0.8	0
56	Electrically controllable liquid crystal random lasers below the Fréedericksz transition threshold. Optics Express, 2011, 19, 2391.	3.4	55
57	All-optically controllable dye-doped liquid crystal infiltrated photonic crystal fiber. Optics Express, 2011, 19, 9676.	3.4	16
58	Novel dye-doped cholesteric liquid crystal cone lasers with various birefringences and associated tunabilities of lasing feature and performance. Optics Express, 2011, 19, 18199.	3.4	19
59	Dual-Function Beam Shapers Fabricated by Photoaligned Liquid Crystal Cells. Applied Physics Express, 2011, 4, 052502.	2.4	0
60	Identification of optical nonlinearities of dye-doped nematic and polymer-dispersed liquid crystals using Z-scan technique. Optics Communications, 2010, 283, 323-329.	2.1	10
61	Determination of polar anchoring energy of dye-doped liquid crystals by measuring capacitance. Journal of Applied Physics, 2010, 107, .	2.5	4
62	Linear polarization rotators based on dye-doped liquid crystal cells. Applied Physics Letters, 2010, 96, .	3.3	15
63	Band-tunable color cone lasing emission based on a dye-doped cholesteric liquid crystal film. , 2010, , .		0
64	Photoerasable and photorewritable spatially-tunable laser based on a dye-doped cholesteric liquid crystal with a photoisomerizable chiral dopant. Optics Express, 2010, 18, 9496.	3.4	19
65	All-optically controllable random laser based on a dye-doped liquid crystal added with a photoisomerizable dye. Optics Express, 2010, 18, 25896.	3.4	39
66	Spatially band-tunable color-cone lasing emission in a dye-doped cholesteric liquid crystal with a photoisomerizable chiral dopant. Optics Letters, 2010, 35, 1398.	3.3	11
67	All-optically controllable random laser based on a dye-doped polymer-dispersed liquid crystal with nano-sized droplets. Optics Express, 2010, 18, 2406.	3.4	41
68	All-optically controllable distributed feedback laser in a dye-doped holographic polymer-dispersed liquid crystal grating with a photoisomerizable dye. Optics Express, 2010, 18, 2613.	3.4	12
69	Electro- and photo-controllable spatial filter based on liquid crystal film with a photoconductive layer. Applied Physics B: Lasers and Optics, 2009, 97, 749-752.	2.2	5
70	Color cone lasing emission in a dye-doped cholesteric liquid crystal with a single pitch. Optics Express, 2009, 17, 12910.	3.4	39
71	All-optical and polarization-independent spatial filter based on a vertically-aligned polymer-stabilized liquid crystal film with a photoconductive layer. Optics Express, 2009, 17, 22386.	3.4	10
72	Band-tunable color cone lasing emission based on dye-doped cholesteric liquid crystals with various pitches and a pitch gradient. Optics Express, 2009, 17, 22616.	3.4	21

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73	Dynamics of photoalignment in azo-dye-doped liquid crystals. Applied Physics Letters, 2008, 93, .	3.3	21
74	Photoinduced two-dimensional gratings based on dye-doped cholesteric liquid crystal films. Journal of Chemical Physics, 2007, 127, 141105.	3.0	25
75	Electrically Switchable Fresnel Lens Based on a Liquid Crystal Film with a Polymer Relief Pattern. Japanese Journal of Applied Physics, 2007, 46, 4144-4147.	1.5	28
76	Biphotonic Laser-Induced Ripple Structures in Dye-Doped Liquid Crystal Films. Japanese Journal of Applied Physics, 2006, 45, 7024-7027.	1.5	7
77	Optically switchable biphotonic photorefractive effect in dye-doped liquid crystal films. Applied Physics Letters, 2004, 85, 5822-5824.	3.3	35
78	Photorefractive effect induced by polarization gratings in dye-doped liquid crystals. Optics Letters, 2004, 29, 110.	3.3	15
79	Ultra-Broadband Tunable Bragg-Berry Optical Vortex Generators of a Circularly Symmetric Chiroptic Structure. Advanced Optical Materials, 0, , 2100746.	7.3	5