

Cliff Jones

List of Publications by Year in descending order

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98
papers

1,519
citations

361413

20
h-index

395702

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101
all docs

101
docs citations

101
times ranked

930
citing authors

#	ARTICLE	IF	CITATIONS
1	Infrared triggered smart contact lens for the treatment of presbyopia. Journal Physics D: Applied Physics, 2022, 55, 210001.	2.8	3
2	Chiral nematic liquid crystal droplets as a basis for sensor systems. Molecular Systems Design and Engineering, 2022, 7, 607-621.	3.4	15
3	Production of giant unilamellar vesicles and encapsulation of lyotropic nematic liquid crystals. Soft Matter, 2021, 17, 2234-2241.	2.7	15
4	Liquid Crystal Devices for Beam Steering Applications. Micromachines, 2021, 12, 247.	2.9	25
5	A self-healing ferroelectric liquid crystal electro-optic shutter based on vertical surface-relief grating alignment. Nature Communications, 2021, 12, 4717.	12.8	14
6	Textures of Nematic Liquid Crystal Cylindric-Section Droplets Confined by Chemically Patterned Surfaces. Crystals, 2021, 11, 65.	2.2	5
7	Variable pitch hydrodynamic electro-optic gratings utilising bent liquid crystal dimers. Soft Matter, 2020, 16, 10439-10453.	2.7	5
8	Electrically Driven Rotation and Nonreciprocal Motion of Microparticles in Nematic Liquid Crystals. Small, 2020, 16, e2003352.	10.0	4
9	Control of Director Fields in Phospholipid-Coated Liquid Crystal Droplets. Langmuir, 2020, 36, 6436-6446.	3.5	20
10	Polarisation independent liquid crystal lenses and contact lenses using embossed reactive mesogens. Journal of the Society for Information Display, 2020, 28, 211-223.	2.1	6
11	P206: Late News Poster: A Grating-Aligned Ferroelectric Liquid Crystal Electro-Optic Shutter for Fast Switching and Shock-Resistant Applications. Digest of Technical Papers SID International Symposium, 2019, 50, 1806-1809.	0.3	2
12	703: Invited Paper: Polarisation Independent Liquid Crystal Lenses using Embossed Reactive Mesogens. Digest of Technical Papers SID International Symposium, 2019, 50, 992-995.	0.3	1
13	Lipid coated liquid crystal droplets for the on-chip detection of antimicrobial peptides. Lab on A Chip, 2019, 19, 1082-1089.	6.0	65
14	Continuously variable diffraction gratings using electroconvection in liquid crystals for beam steering applications. Journal of Applied Physics, 2019, 126, .	2.5	12
15	Self-assembly of fractal liquid crystal colloids. Nature Communications, 2019, 10, 198.	12.8	36
16	Embossing Reactive Mesogens: A Facile Approach to Polarization-Independent Liquid Crystal Devices. Advanced Optical Materials, 2019, 7, 1801261.	7.3	18
17	14th European Conference on Liquid Crystals in Moscow at the ninetieth anniversary of the Fréedericksz transition. Liquid Crystals Today, 2018, 27, 12-17.	2.3	1
18	Effects of monoclinic symmetry on the properties of biaxial liquid crystals. Physical Review E, 2018, 97, 042702.	2.1	1

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19	The fiftieth anniversary of the liquid crystal display. <i>Liquid Crystals Today</i> , 2018, 27, 44-70.	2.3	25
20	Switchable Liquid Crystal Contact Lenses for the Correction of Presbyopia. <i>Crystals</i> , 2018, 8, 29.	2.2	46
21	Method for Tuneable Homeotropic Anchoring at Microstructures in Liquid Crystal Devices. <i>Langmuir</i> , 2018, 34, 10865-10873.	3.5	11
22	Rapid reproduction of anisotropic optical elements by embossing of UV-crosslinkable liquid crystals. , 2018, , .		0
23	Alignment and electro-optical properties of SmC [*] with direct transition to N [*] phases. <i>Molecular Crystals and Liquid Crystals</i> , 2017, 647, 162-168.	0.9	0
24	Design considerations for liquid crystal contact lenses. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 485401.	2.8	16
25	Graphene electrodes for adaptive liquid crystal contact lenses. <i>Optics Express</i> , 2016, 24, 8782.	3.4	24
26	Bistable Liquid Crystal Displays. , 2016, , 2157-2198.		1
27	Understanding the unusual reorganization of the nanostructure of a dark conglomerate phase. <i>Physical Review E</i> , 2015, 91, 042504.	2.1	22
28	Novel switching mode in a vertically aligned liquid crystal contact lens. <i>Optics Express</i> , 2015, 23, 9911.	3.4	30
29	Raman scattering studies of order parameters in liquid crystalline dimers exhibiting the nematic and twist-bend nematic phases. <i>Journal of Materials Chemistry C</i> , 2015, 3, 10007-10016.	5.5	71
30	Field-induced refractive index variation in the dark conglomerate phase for polarization-independent switchable liquid crystal lenses. <i>Applied Optics</i> , 2014, 53, 7278.	2.1	9
31	Bistable Liquid Crystal Displays. , 2014, , 1-34.		1
32	Flexible conductive polymer polarizer designed for a chemical tag. <i>Proceedings of SPIE</i> , 2013, , .	0.8	0
33	Bistable Liquid Crystal Displays. , 2012, , 1507-1543.		7
34	Relating Display Performance and Grating Structure of a Zenithal Bistable Display. <i>Molecular Crystals and Liquid Crystals</i> , 2011, 543, 57/[823]-68/[834].	0.9	11
35	15.4: Invited Paper: Low Cost Zenithal Bistable Display with Improved White State. <i>Digest of Technical Papers SID International Symposium</i> , 2010, 41, 207.	0.3	7
36	Zenithal bistable device: Comparison of modeling and experiment. <i>Physical Review E</i> , 2010, 82, 021702.	2.1	25

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37	Approaching the "Zenithal" Bistable LCDs in a Retail Environment. Information Display, 2009, 25, 8-11.	0.2	12
38	P65: Controlled Grating Replication for the ZBD Technology. Digest of Technical Papers SID International Symposium, 2009, 40, 1334-1337.	0.3	7
39	P120: Optimizing the Zenithal Bistable Display. Digest of Technical Papers SID International Symposium, 2009, 40, 1577-1580.	0.3	3
40	The Zenithal Bistable Display: From concept to consumer. Journal of the Society for Information Display, 2008, 16, 143-154.	2.1	37
41	40.1:Invited Paper: The Zenithal Bistable Device: From Concept to Consumer. Digest of Technical Papers SID International Symposium, 2007, 38, 1347-1350.	0.3	10
42	51.2: Novel Geometries of the Zenithal Bistable Device. Digest of Technical Papers SID International Symposium, 2006, 37, 1626.	0.3	10
43	Double minimum in the surface stabilized ferroelectric liquid crystal switching response. Applied Physics Letters, 2004, 85, 1763-1765.	3.3	106
44	10.4: High Image-Content Zenithal Bistable Devices. Digest of Technical Papers SID International Symposium, 2004, 35, 140.	0.3	1
45	Gray scale in zenithal bistable LCDs: The route to ultra-low-power color displays. Journal of the Society for Information Display, 2003, 11, 269.	2.1	13
46	X-RAY STRUCTURAL STUDIES OF FERROELECTRIC LIQUID CRYSTAL DEVICES. Molecular Crystals and Liquid Crystals, 2003, 402, 55-75.	0.9	3
47	26.3: Low Voltage Zenithal Bistable Devices with Wide Operating Windows. Digest of Technical Papers SID International Symposium, 2003, 34, 954.	0.3	18
48	8.4: Meeting the Display Requirements for Portable Applications using Zenithal Bistable Devices (ZBD). Digest of Technical Papers SID International Symposium, 2002, 33, 90.	0.3	6
49	5.1: Large Area, High Resolution Portable ZBD Display. Digest of Technical Papers SID International Symposium, 2002, 33, 22.	0.3	8
50	Nematic Liquid Crystals with a Trifluoromethyl Group. Molecular Crystals and Liquid Crystals, 2001, 364, 873-880.	0.3	8
51	Terminal trifluoromethyl-alkoxy and-alkenyloxy nematic liquid crystals for LCDs with active matrix addressing. Liquid Crystals, 2001, 28, 417-435.	2.2	5
52	Aromatic liquid crystals with a trifluoromethyl group in the terminal chain for use in nematic LC mixtures. Liquid Crystals, 2001, 28, 749-759.	2.2	9
53	Chiral liquid crystals for ferroelectric, electroclinic, and antiferroelectric displays and photonic devices. , 2000, 3955, 2.		15
54	Novel bistable liquid crystal displays based on grating alignment. , 2000, , .		18

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55	A twist grain boundary phase with a local antiferroelectric structure. Journal of Physics Condensed Matter, 2000, 12, 8577-8593.	1.8	15
56	<title>Novel electro-optic modulator system for the production of dynamic images from giga-pixel computer-generated holograms</title>. , 2000, 3956, 13.		23
57	11.2: Zenithal Bistable Device (ZBD \hat{a} , \hat{c}) Suitable for Portable Applications. Digest of Technical Papers SID International Symposium, 2000, 31, 124-127.	0.3	24
58	Ferroelectric Liquid Crystalline Materials: Hosts, Dopants and Gels for Display Applications. Molecular Crystals and Liquid Crystals, 2000, 346, 169-182.	0.3	3
59	Detailed simulation of the goldstone mode response of ferroelectric liquid crystals in the surface stabilised geometry. Ferroelectrics, 2000, 245, 71-79.	0.6	1
60	The synthesis and properties of host materials with fluoro substituents in the core and in a terminal chain for high dielectric biaxiality FLC mixtures. Ferroelectrics, 2000, 243, 19-26.	0.6	5
61	X-ray studies of layer structure and needle defects in anti-parallel aligned SSFLC devices with medium pre-tilt. Ferroelectrics, 2000, 244, 83-93.	0.6	3
62	The physics of \hat{i} , \hat{v} minferroelectric liquid crystal displays. Ferroelectrics, 2000, 246, 191-201.	0.6	6
63	Spontaneous layer reorientation in smectic C liquid crystals. Ferroelectrics, 2000, 244, 95-104.	0.6	1
64	Liquid-crystalline Abrikosov flux phase with an antiferroelectric structure. Chemical Communications, 2000, , 1149-1150.	4.1	16
65	X-Ray Study of the Layer Structure in a High Pre-Tilt, Anti-Parallel Aligned Ferroelectric Liquid Crystal. Molecular Crystals and Liquid Crystals, 1999, 329, 19-26.	0.3	5
66	Accurate determination of the temperature and frequency dependent smectic C biaxial permittivity tensor. Journal of Applied Physics, 1999, 86, 3333-3341.	2.5	17
67	Novel Nematic Compounds Incorporating Two Conjugated Carbon-Carbon Double Bonds in the Terminal Chain. Molecular Crystals and Liquid Crystals, 1999, 332, 91-99.	0.3	3
68	Layer and Director Profiles in Ferroelectric Liquid Crystal Displays Subjected to Mechanical Damage. Molecular Crystals and Liquid Crystals, 1999, 328, 357-365.	0.3	5
69	Determination of the Temperature Dependent Smectic C Biaxial Permittivity Tensor and Elastic Constants. Molecular Crystals and Liquid Crystals, 1999, 331, 465-472.	0.3	0
70	The Synthesis and Properties of Fluoroterphenyls for High Dielectric Biaxiality Ferroelectric Liquid Crystal Mixtures. Molecular Crystals and Liquid Crystals, 1999, 332, 321-328.	0.3	20
71	17-in. Video-Rate Full-Color FLC \hat{D} .. Kyokai Joho Imeji Zasshi/Journal of the Institute of Image Information and Television Engineers, 1999, 53, 1136-1141.	0.1	5
72	P-77: FLC Materials with Fast Response Time and High Contrast Ratio for the \hat{i} , \hat{v} min Mode FLC \hat{D} s. Digest of Technical Papers SID International Symposium, 1998, 29, 778.	0.3	3

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73	LP-L: Late-News Poster: Novel Configuration of the Zenithal Bistable Nematic Liquid-Crystal Device. Digest of Technical Papers SID International Symposium, 1998, 29, 858.	0.3	9
74	46.3: The Effect of Surface Structure on the Performance of a Ferroelectric LCD. Digest of Technical Papers SID International Symposium, 1998, 29, 1179.	0.3	2
75	Measurement of the Elastic Constants and Effective Surface Anchoring Energy for a Smectic C Liquid Crystal. Molecular Crystals and Liquid Crystals, 1997, 304, 371-376.	0.3	6
76	The effect of the elastic constants on the alignment and electro-optic behaviour of smectic C liquid crystals. European Journal of Applied Mathematics, 1997, 8, 281-291.	2.9	16
77	Assessing ferroelectric materials for application in \bar{I} , VMINmode devices. Ferroelectrics, 1996, 178, 65-74.	0.6	18
78	X-ray diffraction studies of surface stabilised ferroelectric liquid crystals in both low and high pretilt devices. Ferroelectrics, 1996, 180, 71-82.	0.6	0
79	Dielectric relaxation studies of goldstone mode fluctuations in SSFLC cells. Ferroelectrics, 1996, 180, 1-13.	0.6	4
80	The relationship between the smectic C director and layer profiles and the surface anchoring energies. Ferroelectrics, 1996, 178, 155-165.	0.6	5
81	On the effects of doping calamitic and discotic nematics with materials of the opposite aspect ratio. Liquid Crystals, 1996, 21, 581-584.	2.2	2
82	Greyscale and color in ferroelectric liquid crystal displays. , 1995, , .		0
83	X-Ray Diffraction Studies of the Smectic A to Smectic C* Transition within a Surface Stabilised Liquid Crystal Cell. Molecular Crystals and Liquid Crystals, 1995, 263, 255-270.	0.3	11
84	The Synthesis, Mesomorphic Behaviour and the Uniaxial Nature of 1,2,4,5-Tetra-(4-Alkoxybenzoyloxy) Benzenes. Molecular Crystals and Liquid Crystals, 1995, 260, 339-350.	0.3	18
85	On the refractive indices, polarizabilities and order parameter of a nematic discogenic mixture. Liquid Crystals, 1994, 16, 805-812.	2.2	18
86	Fast, high-contrast ferroelectric liquid crystal displays and the role of dielectric biaxiality. Displays, 1993, 14, 86-93.	3.7	74
87	On the influence of short range order upon the physical properties of triphenylene nematic discogens. Liquid Crystals, 1993, 15, 203-215.	2.2	35
88	Measurement of the biaxial permittivities for several smectic C host materials used in ferroelectric liquid crystal devices. Liquid Crystals, 1992, 11, 199-217.	2.2	43
89	The effect of the biaxial permittivity tensor and tilted layer geometries on the switching of ferroelectric liquid crystals. Liquid Crystals, 1992, 11, 365-371.	2.2	37
90	Optical studies of thin layers of smectic C materials. Ferroelectrics, 1991, 121, 137-141.	0.6	3

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91	The importance of dielectric biaxiality for ferroelectric liquid crystal devices. <i>Ferroelectrics</i> , 1991, 121, 91-102.	0.6	37
92	Shedding light on alignment. <i>Nature</i> , 1991, 351, 15-15.	27.8	81
93	Optical studies of thin layers of smectic-C materials. <i>Journal Physics D: Applied Physics</i> , 1991, 24, 338-342.	2.8	50
94	Optical studies of high tilt SiO aligned thin layers of smectic C materials. <i>Liquid Crystals</i> , 1991, 10, 439-444.	2.2	9
95	Dielectric Biaxiality in S _C Host Systems. <i>Molecular Crystals and Liquid Crystals</i> , 1991, 199, 277-285.	0.7	33
96	On the biaxiality of smectic C and ferroelectric liquid crystals. <i>Liquid Crystals</i> , 0, , 1-28.	2.2	3
97	Defects, flexoelectricity and RF communications: the ZBD story. <i>Liquid Crystals</i> , 0, , 1-28.	2.2	4
98	Inducing Variable Pitch Gratings in Nematic Liquid Crystals Using Chirped Surface Acoustic Wave Transducers. <i>Journal Physics D: Applied Physics</i> , 0, , .	2.8	1