

Cliff Jones

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3501482/publications.pdf>

Version: 2024-02-01

98
papers

1,519
citations

361413

20
h-index

395702

33
g-index

101
all docs

101
docs citations

101
times ranked

930
citing authors

#	ARTICLE	IF	CITATIONS
1	Double minimum in the surface stabilized ferroelectric liquid crystal switching response. Applied Physics Letters, 2004, 85, 1763-1765.	3.3	106
2	Shedding light on alignment. Nature, 1991, 351, 15-15.	27.8	81
3	Fast, high-contrast ferroelectric liquid crystal displays and the role of dielectric biaxiality. Displays, 1993, 14, 86-93.	3.7	74
4	Raman scattering studies of order parameters in liquid crystalline dimers exhibiting the nematic and twist-bend nematic phases. Journal of Materials Chemistry C, 2015, 3, 10007-10016.	5.5	71
5	Lipid coated liquid crystal droplets for the on-chip detection of antimicrobial peptides. Lab on A Chip, 2019, 19, 1082-1089.	6.0	65
6	Optical studies of thin layers of smectic-C materials. Journal Physics D: Applied Physics, 1991, 24, 338-342.	2.8	50
7	Switchable Liquid Crystal Contact Lenses for the Correction of Presbyopia. Crystals, 2018, 8, 29.	2.2	46
8	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
9	The importance of dielectric biaxiality for ferroelectric liquid crystal devices. Ferroelectrics, 1991, 121, 91-102.	0.6	37
10	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
11	The Zenithal Bistable Display: From concept to consumer. Journal of the Society for Information Display, 2008, 16, 143-154.	2.1	37
12	Self-assembly of fractal liquid crystal colloids. Nature Communications, 2019, 10, 198.	12.8	36
13	On the influence of short range order upon the physical properties of triphenylene nematic discogens. Liquid Crystals, 1993, 15, 203-215.	2.2	35
14	Dielectric Biaxiality in S _C Host Systems. Molecular Crystals and Liquid Crystals, 1991, 199, 277-285.	0.7	33
15	Novel switching mode in a vertically aligned liquid crystal contact lens. Optics Express, 2015, 23, 9911.	3.4	30
16	Zenithal bistable device: Comparison of modeling and experiment. Physical Review E, 2010, 82, 021702.	2.1	25
17	The fiftieth anniversary of the liquid crystal display. Liquid Crystals Today, 2018, 27, 44-70.	2.3	25
18	Liquid Crystal Devices for Beam Steering Applications. Micromachines, 2021, 12, 247.	2.9	25

#	ARTICLE	IF	CITATIONS
19	11.2: Zenithal Bistable Device (ZBD _z) Suitable for Portable Applications. Digest of Technical Papers SID International Symposium, 2000, 31, 124-127.	0.3	24
20	Graphene electrodes for adaptive liquid crystal contact lenses. Optics Express, 2016, 24, 8782.	3.4	24
21	<title>Novel electro-optic modulator system for the production of dynamic images from giga-pixel computer-generated holograms</title>. , 2000, 3956, 13.		23
22	Understanding the unusual reorganization of the nanostructure of a dark conglomerate phase. Physical Review E, 2015, 91, 042504.	2.1	22
23	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
24	Control of Director Fields in Phospholipid-Coated Liquid Crystal Droplets. Langmuir, 2020, 36, 6436-6446.	3.5	20
25	On the refractive indices, polarizabilities and order parameter of a nematic discogenic mixture. Liquid Crystals, 1994, 16, 805-812.	2.2	18
26	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
27	Assessing ferroelectric materials for application in \bar{I} , VMINmode devices. Ferroelectrics, 1996, 178, 65-74.	0.6	18
28	Novel bistable liquid crystal displays based on grating alignment. , 2000, , .		18
29	26.3: Low Voltage Zenithal Bistable Devices with Wide Operating Windows. Digest of Technical Papers SID International Symposium, 2003, 34, 954.	0.3	18
30	Embossing Reactive Mesogens: A Facile Approach to Polarization-Independent Liquid Crystal Devices. Advanced Optical Materials, 2019, 7, 1801261.	7.3	18
31	Accurate determination of the temperature and frequency dependent smectic C biaxial permittivity tensor. Journal of Applied Physics, 1999, 86, 3333-3341.	2.5	17
32	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
33	Liquid-crystalline Abrikosov flux phase with an antiferroelectric structure. Chemical Communications, 2000, , 1149-1150.	4.1	16
34	Design considerations for liquid crystal contact lenses. Journal Physics D: Applied Physics, 2017, 50, 485401.	2.8	16
35	Chiral liquid crystals for ferroelectric, electroclinic, and antiferroelectric displays and photonic devices. , 2000, 3955, 2.		15
36	A twist grain boundary phase with a local antiferroelectric structure. Journal of Physics Condensed Matter, 2000, 12, 8577-8593.	1.8	15

#	ARTICLE	IF	CITATIONS
37	Production of giant unilamellar vesicles and encapsulation of lyotropic nematic liquid crystals. <i>Soft Matter</i> , 2021, 17, 2234-2241.	2.7	15
38	Chiral nematic liquid crystal droplets as a basis for sensor systems. <i>Molecular Systems Design and Engineering</i> , 2022, 7, 607-621.	3.4	15
39	A self-healing ferroelectric liquid crystal electro-optic shutter based on vertical surface-relief grating alignment. <i>Nature Communications</i> , 2021, 12, 4717.	12.8	14
40	Gray scale in zenithal bistable LCDs: The route to ultra-low-power color displays. <i>Journal of the Society for Information Display</i> , 2003, 11, 269.	2.1	13
41	Approaching the ‘Zenithal’ Bistable LCDs in a Retail Environment. <i>Information Display</i> , 2009, 25, 8-11.	0.2	12
42	Continuously variable diffraction gratings using electroconvection in liquid crystals for beam steering applications. <i>Journal of Applied Physics</i> , 2019, 126, .	2.5	12
43	X-Ray Diffraction Studies of the Smectic A to Smectic C* Transition within a Surface Stabilised Liquid Crystal Cell. <i>Molecular Crystals and Liquid Crystals</i> , 1995, 263, 255-270.	0.3	11
44	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
45	Method for Tuneable Homeotropic Anchoring at Microstructures in Liquid Crystal Devices. <i>Langmuir</i> , 2018, 34, 10865-10873.	3.5	11
46	51.2: Novel Geometries of the Zenithal Bistable Device. <i>Digest of Technical Papers SID International Symposium</i> , 2006, 37, 1626.	0.3	10
47	40.1:Invited Paper: The Zenithal Bistable Device: From Concept to Consumer. <i>Digest of Technical Papers SID International Symposium</i> , 2007, 38, 1347-1350.	0.3	10
48	Optical studies of high tilt SiO aligned thin layers of smectic C materials. <i>Liquid Crystals</i> , 1991, 10, 439-444.	2.2	9
49	LP-L: Late-News Poster: Novel Configuration of the Zenithal Bistable Nematic Liquid-Crystal Device. <i>Digest of Technical Papers SID International Symposium</i> , 1998, 29, 858.	0.3	9
50	Aromatic liquid crystals with a trifluoromethyl group in the terminal chain for use in nematic LC mixtures. <i>Liquid Crystals</i> , 2001, 28, 749-759.	2.2	9
51	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
52	Nematic Liquid Crystals with a Trifluoromethyl Group. <i>Molecular Crystals and Liquid Crystals</i> , 2001, 364, 873-880.	0.3	8
53	5.1: Large Area, High Resolution Portable ZBD Display. <i>Digest of Technical Papers SID International Symposium</i> , 2002, 33, 22.	0.3	8
54	PA: Controlled Grating Replication for the ZBD Technology. <i>Digest of Technical Papers SID International Symposium</i> , 2009, 40, 1334-1337.	0.3	7

#	ARTICLE	IF	CITATIONS
55	15.4: Invited Paper: Low Cost Zenithal Bistable Display with Improved White State. Digest of Technical Papers SID International Symposium, 2010, 41, 207.	0.3	7
56	Bistable Liquid Crystal Displays. , 2012, , 1507-1543.		7
57	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
58	The physics of \tilde{V}_m ferroelectric liquid crystal displays. Ferroelectrics, 2000, 246, 191-201.	0.6	6
59	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
60	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
61	The relationship between the smectic C director and layer profiles and the surface anchoring energies. Ferroelectrics, 1996, 178, 155-165.	0.6	5
62	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
63	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
64	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
65	Terminal trifluoromethyl-alkoxy and-alkenyloxy nematic liquid crystals for LCDs with active matrix addressing. Liquid Crystals, 2001, 28, 417-435.	2.2	5
66	Variable pitch hydrodynamic electro-optic gratings utilising bent liquid crystal dimers. Soft Matter, 2020, 16, 10439-10453.	2.7	5
67	Textures of Nematic Liquid Crystal Cylindric-Section Droplets Confined by Chemically Patterned Surfaces. Crystals, 2021, 11, 65.	2.2	5
68	17-in. Video-Rate Full-Color FLC. Kyokai Joho Imeji Zasshi/Journal of the Institute of Image Information and Television Engineers, 1999, 53, 1136-1141.	0.1	5
69	Dielectric relaxation studies of goldstone mode fluctuations in SSFLC cells. Ferroelectrics, 1996, 180, 1-13.	0.6	4
70	Defects, flexoelectricity and RF communications: the ZBD story. Liquid Crystals, 0, , 1-28.	2.2	4
71	Electrically Driven Rotation and Nonreciprocal Motion of Microparticles in Nematic Liquid Crystals. Small, 2020, 16, e2003352.	10.0	4
72	Optical studies of thin layers of smectic C materials. Ferroelectrics, 1991, 121, 137-141.	0.6	3

#	ARTICLE	IF	CITATIONS
73	P-77: FLC Materials with Fast Response Time and High Contrast Ratio for the \bar{I}_v -Vmin Mode FLCs. Digest of Technical Papers SID International Symposium, 1998, 29, 778.	0.3	3
74	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
75	Ferroelectric Liquid Crystalline Materials: Hosts, Dopants and Gels for Display Applications. Molecular Crystals and Liquid Crystals, 2000, 346, 169-182.	0.3	3
76	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
77	X-RAY STRUCTURAL STUDIES OF FERROELECTRIC LIQUID CRYSTAL DEVICES. Molecular Crystals and Liquid Crystals, 2003, 402, 55-75.	0.9	3
78	Pߜ20: Optimizing the Zenithal Bistable Display. Digest of Technical Papers SID International Symposium, 2009, 40, 1577-1580.	0.3	3
79	On the biaxiality of smectic C and ferroelectric liquid crystals. Liquid Crystals, 0, , 1-28.	2.2	3
80	Infrared triggered smart contact lens for the treatment of presbyopia. Journal Physics D: Applied Physics, 2022, 55, 210001.	2.8	3
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	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
83	Pߜ206: LateߜNews Poster: A GratingߜAligned Ferroelectric Liquid Crystal ElectroߜOptic Shutter for FastߜSwitching and ShockߜResistant Applications. Digest of Technical Papers SID International Symposium, 2019, 50, 1806-1809.	0.3	2
84	Detailed simulation of the goldstone mode response of ferroelectric liquid crystals in the surface stabilised geometry. Ferroelectrics, 2000, 245, 71-79.	0.6	1
85	Spontaneous layer reorientation in smectic C liquid crystals. Ferroelectrics, 2000, 244, 95-104.	0.6	1
86	10.4: High Image-Content Zenithal Bistable Devices. Digest of Technical Papers SID International Symposium, 2004, 35, 140.	0.3	1
87	14th European Conference on Liquid Crystals in Moscow at the ninetieth anniversary of the Frߜedericksz transition. Liquid Crystals Today, 2018, 27, 12-17.	2.3	1
88	Effects of monoclinic symmetry on the properties of biaxial liquid crystals. Physical Review E, 2018, 97, 042702.	2.1	1
89	70ߜ3: 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
90	Bistable Liquid Crystal Displays. , 2014, , 1-34.		1

#	ARTICLE	IF	CITATIONS
91	Bistable Liquid Crystal Displays. , 2016, , 2157-2198.		1
92	Inducing Variable Pitch Gratings in Nematic Liquid Crystals Using Chirped Surface Acoustic Wave Transducers. Journal Physics D: Applied Physics, 0, , .	2.8	1
93	Greyscale and color in ferroelectric liquid crystal displays. , 1995, , .		0
94	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
95	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
96	Flexible conductive polymer polarizer designed for a chemical tag. Proceedings of SPIE, 2013, , .	0.8	0
97	Alignment and electro-optical properties of SmC [*] with direct transition to N [*] phases. Molecular Crystals and Liquid Crystals, 2017, 647, 162-168.	0.9	0
98	Rapid reproduction of anisotropic optical elements by embossing of UV-crosslinkable liquid crystals. , 2018, , .		0