Steve J Elston

List of Publications by Year in descending order

60 papers	616 citations	759233 12 h-index	642732 23 g-index
61 all docs	61 docs citations	61 times ranked	824 citing authors

#	Article	IF	Citations
1	Enhanced Amplified Spontaneous Emission in Perovskites Using a Flexible Cholesteric Liquid Crystal Reflector. Nano Letters, 2015, 15, 4935-4941.	9.1	117
2	Short pitch cholesteric electro-optical device based on periodic polymer structures. Applied Physics Letters, 2009, 95, .	3.3	60
3	Spatially Patterned Polymer Dispersed Liquid Crystals for Imageâ€Integrated Smart Windows. Advanced Optical Materials, 2022, 10, .	7.3	36
4	Electrically-tunable positioning of topological defects in liquid crystals. Nature Communications, 2020, 11, 2203.	12.8	34
5	Read on Demand Images in Laserâ€Written Polymerizable Liquid Crystal Devices. Advanced Optical Materials, 2018, 6, 1800515.	7.3	31
6	Uniform Lying Helix Alignment on Periodic Surface Relief Structure Generated via Laser Scanning Lithography. Molecular Crystals and Liquid Crystals, 2011, 544, 37/[1025]-49/[1037].	0.9	26
7	The Optics of Ferroelectric Liquid Crystals. Journal of Modern Optics, 1995, 42, 19-56.	1.3	23
8	Alignment of the Uniform Lying Helix Structure in Cholesteric Liquid Crystals. Japanese Journal of Applied Physics, 2009, 48, 101302.	1.5	21
9	Localised polymer networks in chiral nematic liquid crystals for high speed photonic switching. Journal of Applied Physics, 2016, 119, .	2.5	20
10	Polarized Phosphorescence of Isotropic and Metalâ€Based Clustomesogens Dispersed into Chiral Nematic Liquid Crystalline Films. Advanced Optical Materials, 2015, 3, 1368-1372.	7.3	17
11	Flexoelectricity in nematic domain walls. Physical Review E, 2008, 78, 011701.	2.1	16
12	3D Switchable Diffractive Optical Elements Fabricated with Twoâ€Photon Polymerization. Advanced Optical Materials, 2022, 10, .	7.3	16
13	Determination of flexoelectric coefficients in nematic liquid crystals using the crystal rotation method. Liquid Crystals, 2012, 39, 149-156.	2.2	14
14	A Thinâ€Film Flexible Defectâ€Mode Laser. Advanced Optical Materials, 2020, 8, 1901891.	7.3	14
15	Dropâ€onâ€Demand Inkjet Printing of Thermally Tunable Liquid Crystal Microlenses. Advanced Engineering Materials, 2018, 20, 1700774.	3.5	13
16	Speckle contrast reduction of laser light using a chiral nematic liquid crystal diffuser. Applied Physics Letters, 2016, 109, .	3.3	12
17	Twoâ€Photon Laserâ€Written Photoalignment Layers for Patterning Liquid Crystalline Conjugated Polymer Orientation. Advanced Functional Materials, 2021, 31, 2007493.	14.9	12
18	Spatial fluctuations of optical solitons due to long-range correlated dielectric perturbations in liquid crystals. Physical Review A, 2017, 96, .	2.5	10

#	Article	IF	Citations
19	A Compact Full 2Ï€ Flexoelectroâ€Optic Liquid Crystal Phase Modulator. Advanced Materials Technologies, 2020, 5, 2000589.	5.8	9
20	Electrically Tunable Printed Bifocal Liquid Crystal Microlens Arrays. Advanced Materials Interfaces, 2020, 7, 2000578.	3.7	9
21	Fast and low loss flexoelectro-optic liquid crystal phase modulator with a chiral nematic reflector. Scientific Reports, 2019, 9, 7016.	3.3	8
22	Enhancing laser speckle reduction by decreasing the pitch of a chiral nematic liquid crystal diffuser. Scientific Reports, 2021, 11, 4818.	3.3	8
23	Light wave propagation in periodic tilted liquid crystal structures: a periodic beam propagation method. Liquid Crystals, 1999, 26, 1663-1669.	2.2	7
24	BEHAVIOUR OF A NEMATIC LIQUID CRYSTAL CELL CONTAINING A DIFFRACTION GRATING. Molecular Crystals and Liquid Crystals, 2003, 400, 13-19.	0.9	7
25	Time-resolved retardance and optic-axis angle measurement system for characterization of flexoelectro-optic liquid crystal and other birefringent devices. Optics Express, 2018, 26, 6126.	3.4	7
26	Millisecond Optical Phase Modulation Using Multipass Configurations with Liquid-Crystal Devices. Physical Review Applied, 2020, 14, .	3.8	7
27	A wide angle beam propagation method for the analysis of tilted nematic liquid crystal structures. Journal of Modern Optics, 1999, 46, 1201-1212.	1.3	7
28	A Chevron Model of the Electroclinic Effect across the SA*-SC* Phase Transition in a SSFLC. Molecular Crystals and Liquid Crystals, 2001, 365, 729-738.	0.3	6
29	Hybrid aligned nematic based measurement of the sum (e1+e3) of the flexoelectric coefficients. Journal of Applied Physics, 2015, 117, 064107.	2.5	6
30	An optically powered, free space optical communications receiver. , 2008, , .		5
31	High-brightness relaxed-bend state in a pi cell stabilized by synchronized polymerization. Applied Physics Letters, 2008, 92, 221109.	3.3	5
32	Dynamic response of large tilt-angle flexoelectro-optic liquid crystal modulators. Optics Express, 2019, 27, 15184.	3.4	5
33	Fast Electro-Optical Device Based on Chiral Liquid Crystals Encapsulated in Periodic Polymer Channels. Molecular Crystals and Liquid Crystals, 2010, 525, 41-49.	0.9	3
34	Characterization of large tilt-angle flexoelectro-optic switching in chiral nematic liquid crystal devices. Liquid Crystals, 2019, 46, 408-414.	2.2	3
35	Laser Speckle Reduction Using a Liquid Crystal Diffuser Enhanced with Redox Dopants. Advanced Photonics Research, 2021, 2, 2000184.	3.6	3
36	Light wave propagation in periodic tilted liquid crystal structures: a periodic beam propagation method. Liquid Crystals, 1999, 26, 1663-1669.	2.2	3

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37	The Pre-Transitional Effect in Antiferroelectric Liquid Crystals: a Comparison between Theory and Experiment. Molecular Crystals and Liquid Crystals, 1999, 328, 65-73.	0.3	2
38	Numerical Modelling of Multi-Dimensional Liquid Crystal Optics: Finite-Difference Time-Domain Method. Molecular Crystals and Liquid Crystals, 2001, 359, 289-299.	0.3	2
39	Optical wireless networks using self-powered nodes. , 2009, , .		2
40	Robust measurement of flexoelectro-optic switching with different surface alignments. Journal of Applied Physics, 2019, 125, 093104.	2.5	2
41	Transmissive flexoelectro-optic liquid crystal optical phase modulator with 2Ï€ modulation. AIP Advances, 2020, 10, 055011.	1.3	2
42	Investigation of the apparently thresholdless behaviour in the high temperature range of an antiferroelectric liquid crystal mixture. Ferroelectrics, 2000, 246, 43-50.	0.6	1
43	Beam Propagation Method Modelling of Zenithal Bistable Nematic Devices: Analysis and Assessment. Molecular Crystals and Liquid Crystals, 2001, 359, 277-288.	0.3	1
44	3-D OPTICAL SIMULATIONS OF AZIMUTHAL BISTABLE NEMATIC DEVICES. Molecular Crystals and Liquid Crystals, 2004, 413, 321-331.	0.9	1
45	Smectic Layer Structures in Complex Geometriesâ€”Modelling Complex Layer Structures in Smectic Liquid Crystals. Ferroelectrics, 2005, 315, 173-181.	0.6	1
46	Asymmetric director structures and flexoelectricity in nematic pi-cell devices. Applied Physics Letters, 2015, 107, .	3.3	1
47	Flexible Lasers: A Thinâ€Film Flexible Defectâ€Mode Laser (Advanced Optical Materials 8/2020). Advanced Optical Materials, 2020, 8, 2070034.	7.3	1
48	Order Parameter Theory for Switching in Antiferroelectric Liquid Crystals. Molecular Crystals and Liquid Crystals, 1999, 330, 557-564.	0.3	0
49	Formation and Stability of Smectic C Chevrons. Molecular Crystals and Liquid Crystals, 2000, 351, 323-333.	0.3	0
50	An investigation into the director structure in the electroclinic effect at the SA-SC* transition. Ferroelectrics, 2000, 244, 339-346.	0.6	0
51	Letter surface and bulk reorientation in ferroelectric liquid crystals. Journal of Modern Optics, 2000, 47, 1297-1305.	1.3	0
52	Thresholdless and hysteretic switching in aflc cells with polar anchoring. Ferroelectrics, 2000, 246, 51-59.	0.6	0
53	The Influence of Polar Surface Anchoring on Switching in Antiferroelectric Liquid Crystals. Molecular Crystals and Liquid Crystals, 2001, 364, 361-371.	0.3	0
54	Optical behaviour of display performance enhancement films. Journal of Modern Optics, 2001, 48, 1319-1328.	1.3	0

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55	Surface Evanescent Field Characterisation of Antiferroelectric Liquid Crystals. Molecular Crystals and Liquid Crystals, 2001, 358, 263-274.	0.3	0
56	MODELLING MULTI-DIMENSIONAL OPTICS IN COMPLEX LIQUID CRYSTAL STRUCTURES AND DISPLAYS. Molecular Crystals and Liquid Crystals, 2003, 401, 75-85.	0.9	0
57	Investigation of Helix Suppression by Surfaces in Chiral Smectic Liquid Crystal Devices: A New Approach to an Old Problem. Ferroelectrics, 2004, 309, 43-54.	0.6	0
58	P-174: Stabilization of High-Brightness Relaxed Bend State and Investigation of Fast-Switching Symmetric H State in a Pi-Cell by Synchronized Illumination Technique. Digest of Technical Papers SID International Symposium, 2008, 39, 1850.	0.3	0
59	Asymmetric Director Structures and Ions in the Measurement of the Flexoelectric Sum (e₁+e₃). Molecular Crystals and Liquid Crystals, 2015, 610, 77-88.	0.9	0
60	Stabilizing the uniform lying helix alignment in chiral nematic liquid crystals using direct laser writing. Ferroelectrics, 2016, 495, 167-173.	0.6	0