

# Steve J Elston

## List of Publications by Year in descending order

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Version: 2024-02-01

60  
papers

616  
citations

759233

12  
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642732

23  
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61  
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61  
docs citations

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times ranked

824  
citing authors

#	ARTICLE	IF	CITATIONS
1	3D Switchable Diffractive Optical Elements Fabricated with Two-Photon Polymerization. <i>Advanced Optical Materials</i> , 2022, 10, .	7.3	16
2	Spatially Patterned Polymer Dispersed Liquid Crystals for Image-Integrated Smart Windows. <i>Advanced Optical Materials</i> , 2022, 10, .	7.3	36
3	Two-Photon Laser-Written Photoalignment Layers for Patterning Liquid Crystalline Conjugated Polymer Orientation. <i>Advanced Functional Materials</i> , 2021, 31, 2007493.	14.9	12
4	Enhancing laser speckle reduction by decreasing the pitch of a chiral nematic liquid crystal diffuser. <i>Scientific Reports</i> , 2021, 11, 4818.	3.3	8
5	Laser Speckle Reduction Using a Liquid Crystal Diffuser Enhanced with Redox Dopants. <i>Advanced Photonics Research</i> , 2021, 2, 2000184.	3.6	3
6	A Compact Full 2 $\pi$ Flexoelectro-Optic Liquid Crystal Phase Modulator. <i>Advanced Materials Technologies</i> , 2020, 5, 2000589.	5.8	9
7	Millisecond Optical Phase Modulation Using Multipass Configurations with Liquid-Crystal Devices. <i>Physical Review Applied</i> , 2020, 14, .	3.8	7
8	Transmissive flexoelectro-optic liquid crystal optical phase modulator with 2 $\pi$ modulation. <i>AIP Advances</i> , 2020, 10, 055011.	1.3	2
9	Electrically-tunable positioning of topological defects in liquid crystals. <i>Nature Communications</i> , 2020, 11, 2203.	12.8	34
10	Electrically Tunable Printed Bifocal Liquid Crystal Microlens Arrays. <i>Advanced Materials Interfaces</i> , 2020, 7, 2000578.	3.7	9
11	A Thin-Film Flexible Defect-Mode Laser. <i>Advanced Optical Materials</i> , 2020, 8, 1901891.	7.3	14
12	Flexible Lasers: A Thin-Film Flexible Defect-Mode Laser (Advanced Optical Materials 8/2020). <i>Advanced Optical Materials</i> , 2020, 8, 2070034.	7.3	1
13	Characterization of large tilt-angle flexoelectro-optic switching in chiral nematic liquid crystal devices. <i>Liquid Crystals</i> , 2019, 46, 408-414.	2.2	3
14	Fast and low loss flexoelectro-optic liquid crystal phase modulator with a chiral nematic reflector. <i>Scientific Reports</i> , 2019, 9, 7016.	3.3	8
15	Robust measurement of flexoelectro-optic switching with different surface alignments. <i>Journal of Applied Physics</i> , 2019, 125, 093104.	2.5	2
16	Dynamic response of large tilt-angle flexoelectro-optic liquid crystal modulators. <i>Optics Express</i> , 2019, 27, 15184.	3.4	5
17	Drop-on-Demand Inkjet Printing of Thermally Tunable Liquid Crystal Microlenses. <i>Advanced Engineering Materials</i> , 2018, 20, 1700774.	3.5	13
18	Time-resolved retardance and optic-axis angle measurement system for characterization of flexoelectro-optic liquid crystal and other birefringent devices. <i>Optics Express</i> , 2018, 26, 6126.	3.4	7

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19	Read on Demand Images in Laser-Written Polymerizable Liquid Crystal Devices. <i>Advanced Optical Materials</i> , 2018, 6, 1800515.	7.3	31
20	Spatial fluctuations of optical solitons due to long-range correlated dielectric perturbations in liquid crystals. <i>Physical Review A</i> , 2017, 96, .	2.5	10
21	Localised polymer networks in chiral nematic liquid crystals for high speed photonic switching. <i>Journal of Applied Physics</i> , 2016, 119, .	2.5	20
22	Speckle contrast reduction of laser light using a chiral nematic liquid crystal diffuser. <i>Applied Physics Letters</i> , 2016, 109, .	3.3	12
23	Stabilizing the uniform lying helix alignment in chiral nematic liquid crystals using direct laser writing. <i>Ferroelectrics</i> , 2016, 495, 167-173.	0.6	0
24	Polarized Phosphorescence of Isotropic and Metal-Based Clustomesogens Dispersed into Chiral Nematic Liquid Crystalline Films. <i>Advanced Optical Materials</i> , 2015, 3, 1368-1372.	7.3	17
25	Asymmetric Director Structures and Ions in the Measurement of the Flexoelectric Sum ( $e_1 + e_3$ ). <i>Molecular Crystals and Liquid Crystals</i> , 2015, 610, 77-88.	0.9	0
26	Enhanced Amplified Spontaneous Emission in Perovskites Using a Flexible Cholesteric Liquid Crystal Reflector. <i>Nano Letters</i> , 2015, 15, 4935-4941.	9.1	117
27	Asymmetric director structures and flexoelectricity in nematic pi-cell devices. <i>Applied Physics Letters</i> , 2015, 107, .	3.3	1
28	Hybrid aligned nematic based measurement of the sum ( $e_1 + e_3$ ) of the flexoelectric coefficients. <i>Journal of Applied Physics</i> , 2015, 117, 064107.	2.5	6
29	Determination of flexoelectric coefficients in nematic liquid crystals using the crystal rotation method. <i>Liquid Crystals</i> , 2012, 39, 149-156.	2.2	14
30	Uniform Lying Helix Alignment on Periodic Surface Relief Structure Generated via Laser Scanning Lithography. <i>Molecular Crystals and Liquid Crystals</i> , 2011, 544, 37/[1025]-49/[1037].	0.9	26
31	Fast Electro-Optical Device Based on Chiral Liquid Crystals Encapsulated in Periodic Polymer Channels. <i>Molecular Crystals and Liquid Crystals</i> , 2010, 525, 41-49.	0.9	3
32	Short pitch cholesteric electro-optical device based on periodic polymer structures. <i>Applied Physics Letters</i> , 2009, 95, .	3.3	60
33	Alignment of the Uniform Lying Helix Structure in Cholesteric Liquid Crystals. <i>Japanese Journal of Applied Physics</i> , 2009, 48, 101302.	1.5	21
34	Optical wireless networks using self-powered nodes. , 2009, , .		2
35	Flexoelectricity in nematic domain walls. <i>Physical Review E</i> , 2008, 78, 011701.	2.1	16
36	An optically powered, free space optical communications receiver. , 2008, , .		5

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37	High-brightness relaxed-bend state in a pi cell stabilized by synchronized polymerization. Applied Physics Letters, 2008, 92, 221109.	3.3	5
38	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
39	Smectic Layer Structures in Complex Geometries—Modelling Complex Layer Structures in Smectic Liquid Crystals. Ferroelectrics, 2005, 315, 173-181.	0.6	1
40	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
41	3-D OPTICAL SIMULATIONS OF AZIMUTHAL BISTABLE NEMATIC DEVICES. Molecular Crystals and Liquid Crystals, 2004, 413, 321-331.	0.9	1
42	MODELLING MULTI-DIMENSIONAL OPTICS IN COMPLEX LIQUID CRYSTAL STRUCTURES AND DISPLAYS. Molecular Crystals and Liquid Crystals, 2003, 401, 75-85.	0.9	0
43	BEHAVIOUR OF A NEMATIC LIQUID CRYSTAL CELL CONTAINING A DIFFRACTION GRATING. Molecular Crystals and Liquid Crystals, 2003, 400, 13-19.	0.9	7
44	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
45	The Influence of Polar Surface Anchoring on Switching in Antiferroelectric Liquid Crystals. Molecular Crystals and Liquid Crystals, 2001, 364, 361-371.	0.3	0
46	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
47	Beam Propagation Method Modelling of Zenithal Bistable Nematic Devices: Analysis and Assessment. Molecular Crystals and Liquid Crystals, 2001, 359, 277-288.	0.3	1
48	Optical behaviour of display performance enhancement films. Journal of Modern Optics, 2001, 48, 1319-1328.	1.3	0
49	Surface Evanescent Field Characterisation of Antiferroelectric Liquid Crystals. Molecular Crystals and Liquid Crystals, 2001, 358, 263-274.	0.3	0
50	Formation and Stability of Smectic C Chevrons. Molecular Crystals and Liquid Crystals, 2000, 351, 323-333.	0.3	0
51	An investigation into the director structure in the electroclinic effect at the SA-SC* transition. Ferroelectrics, 2000, 244, 339-346.	0.6	0
52	Letter surface and bulk reorientation in ferroelectric liquid crystals. Journal of Modern Optics, 2000, 47, 1297-1305.	1.3	0
53	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
54	Thresholdless and hysteretic switching in aflc cells with polar anchoring. Ferroelectrics, 2000, 246, 51-59.	0.6	0

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55	Order Parameter Theory for Switching in Antiferroelectric Liquid Crystals. <i>Molecular Crystals and Liquid Crystals</i> , 1999, 330, 557-564.	0.3	0
56	The Pre-Transitional Effect in Antiferroelectric Liquid Crystals: a Comparison between Theory and Experiment. <i>Molecular Crystals and Liquid Crystals</i> , 1999, 328, 65-73.	0.3	2
57	Light wave propagation in periodic tilted liquid crystal structures: a periodic beam propagation method. <i>Liquid Crystals</i> , 1999, 26, 1663-1669.	2.2	7
58	Light wave propagation in periodic tilted liquid crystal structures: a periodic beam propagation method. <i>Liquid Crystals</i> , 1999, 26, 1663-1669.	2.2	3
59	A wide angle beam propagation method for the analysis of tilted nematic liquid crystal structures. <i>Journal of Modern Optics</i> , 1999, 46, 1201-1212.	1.3	7
60	The Optics of Ferroelectric Liquid Crystals. <i>Journal of Modern Optics</i> , 1995, 42, 19-56.	1.3	23