

Stephen M Morris

List of Publications by Year in descending order

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papers

1,588
citations

394421

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all docs

52
docs citations

52
times ranked

3260
citing authors

#	ARTICLE	IF	CITATIONS
1	Free-Form Laser Profilometry for Pipeline Inspection and 3D Cylindrical Reconstructions. IEEE Sensors Journal, 2022, 22, 297-303.	4.7	2
2	3D Switchable Diffractive Optical Elements Fabricated with Two-Photon Polymerization. Advanced Optical Materials, 2022, 10, .	7.3	16
3	Chiral switches bring new twist to photonics. Nature Photonics, 2022, 16, 174-175.	31.4	5
4	Spatially Patterned Polymer Dispersed Liquid Crystals for Image-Integrated Smart Windows. Advanced Optical Materials, 2022, 10, .	7.3	36
5	Dynamic phase measurement of fast liquid crystal phase modulators. Optics Express, 2022, 30, 24788.	3.4	1
6	Two-Photon Laser-Written Photoalignment Layers for Patterning Liquid Crystalline Conjugated Polymer Orientation. Advanced Functional Materials, 2021, 31, 2007493.	14.9	12
7	Room Temperature Wafer-Scale Synthesis of Highly Transparent, Conductive CuS Nanosheet Films via a Simple Sulfur Adsorption-Corrosion Method. ACS Applied Materials & Interfaces, 2021, 13, 4244-4252.	8.0	19
8	Enhancing laser speckle reduction by decreasing the pitch of a chiral nematic liquid crystal diffuser. Scientific Reports, 2021, 11, 4818.	3.3	8
9	Laser Speckle Reduction Using a Liquid Crystal Diffuser Enhanced with Redox Dopants. Advanced Photonics Research, 2021, 2, 2000184.	3.6	3
10	A Compact Full 2- Flexoelectro-Optic Liquid Crystal Phase Modulator. Advanced Materials Technologies, 2020, 5, 2000589.	5.8	9
11	Millisecond Optical Phase Modulation Using Multipass Configurations with Liquid-Crystal Devices. Physical Review Applied, 2020, 14, .	3.8	7
12	Transmissive flexoelectro-optic liquid crystal optical phase modulator with 2 modulation. AIP Advances, 2020, 10, 055011.	1.3	2
13	Electrically-tunable positioning of topological defects in liquid crystals. Nature Communications, 2020, 11, 2203.	12.8	34
14	Electrically Tunable Printed Bifocal Liquid Crystal Microlens Arrays. Advanced Materials Interfaces, 2020, 7, 2000578.	3.7	9
15	A Thin-Film Flexible Defect-Mode Laser. Advanced Optical Materials, 2020, 8, 1901891.	7.3	14
16	Active Metamaterials with Negative Static Electric Susceptibility. Advanced Materials, 2020, 32, e1904863.	21.0	3
17	Plasmonic Effects of Dual-Metal Nanoparticle Layers for High-Performance Quantum Dot Solar Cells. Plasmonics, 2020, 15, 1007-1013.	3.4	12
18	Flexible Lasers: A Thin-Film Flexible Defect-Mode Laser (Advanced Optical Materials 8/2020). Advanced Optical Materials, 2020, 8, 2070034.	7.3	1

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19	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
20	Direct Epitaxial Synthesis of Selective Two-Dimensional Lateral Heterostructures. <i>ACS Nano</i> , 2019, 13, 13047-13055.	14.6	52
21	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
22	Robust measurement of flexoelectro-optic switching with different surface alignments. <i>Journal of Applied Physics</i> , 2019, 125, 093104.	2.5	2
23	Dynamic response of large tilt-angle flexoelectro-optic liquid crystal modulators. <i>Optics Express</i> , 2019, 27, 15184.	3.4	5
24	Balancing Charge Carrier Transport in a Quantum Dot P _n Junction toward Hysteresis-Free High-Performance Solar Cells. <i>ACS Energy Letters</i> , 2018, 3, 1036-1043.	17.4	37
25	Flexible Solar Cells: Charge Transport Modulation of a Flexible Quantum Dot Solar Cell Using a Piezoelectric Effect (<i>Adv. Energy Mater.</i> 3/2018). <i>Advanced Energy Materials</i> , 2018, 8, 1870012.	19.5	6
26	Charge Transport Modulation of a Flexible Quantum Dot Solar Cell Using a Piezoelectric Effect. <i>Advanced Energy Materials</i> , 2018, 8, 1700809.	19.5	30
27	Drop-on-Demand Inkjet Printing of Thermally Tunable Liquid Crystal Microlenses. <i>Advanced Engineering Materials</i> , 2018, 20, 1700774.	3.5	13
28	Consecutive Junction-Induced Efficient Charge Separation Mechanisms for High-Performance MoS ₂ /Quantum Dot Phototransistors. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 38264-38271.	8.0	58
29	Flexoelectro-optic liquid crystal analog phase-only modulator with a 2 π range and 1 μ s kHz switching. <i>Optics Letters</i> , 2018, 43, 4362.	3.3	12
30	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
31	Read on Demand Images in Laser-Written Polymerizable Liquid Crystal Devices. <i>Advanced Optical Materials</i> , 2018, 6, 1800515.	7.3	31
32	Red green blue emissive lead sulfide quantum dots: heterogeneous synthesis and applications. <i>Journal of Materials Chemistry C</i> , 2017, 5, 3692-3698.	5.5	23
33	Monolayer optical memory cells based on artificial trap-mediated charge storage and release. <i>Nature Communications</i> , 2017, 8, 14734.	12.8	184
34	Strain-Mediated Interlayer Coupling Effects on the Excitonic Behaviors in an Epitaxially Grown MoS ₂ /WS ₂ van der Waals Heterobilayer. <i>Nano Letters</i> , 2017, 17, 5634-5640.	9.1	169
35	Thermodynamically Stable Synthesis of Large-Scale and Highly Crystalline Transition Metal Dichalcogenide Monolayers and their Unipolar n ⁺ Heterojunction Devices. <i>Advanced Materials</i> , 2017, 29, 1702206.	21.0	116
36	Localised polymer networks in chiral nematic liquid crystals for high speed photonic switching. <i>Journal of Applied Physics</i> , 2016, 119, .	2.5	20

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37	Speckle contrast reduction of laser light using a chiral nematic liquid crystal diffuser. Applied Physics Letters, 2016, 109, .	3.3	12
38	Solubility-Dependent NiMoO ₄ Nanoarchitectures: Direct Correlation between Rationally Designed Structure and Electrochemical Pseudokinetics. ACS Applied Materials & Interfaces, 2016, 8, 35227-35234.	8.0	37
39	Enhanced charge carrier transport properties in colloidal quantum dot solar cells via organic and inorganic hybrid surface passivation. Journal of Materials Chemistry A, 2016, 4, 18769-18775.	10.3	29
40	Enhanced Ferroelectric Property of P(VDF-TrFE) Film Using Room Temperature Crystallization for High Performance Ferroelectric Device Applications. Advanced Electronic Materials, 2016, 2, 1600225.	5.1	34
41	Structured Organic-Inorganic Perovskite toward a Distributed Feedback Laser. Advanced Materials, 2016, 28, 923-929.	21.0	257
42	Stabilizing the uniform lying helix alignment in chiral nematic liquid crystals using direct laser writing. Ferroelectrics, 2016, 495, 167-173.	0.6	0
43	Porous nematic microfluidics for generation of umbilic defects and umbilic defect lattices. Physical Review Fluids, 2016, 1, .	2.5	3
44	Polarized Phosphorescence of Isotropic and Metal-Based Clustomesogens Dispersed into Chiral Nematic Liquid Crystalline Films. Advanced Optical Materials, 2015, 3, 1368-1372.	7.3	17
45	Energy Harvesting: Optically Switchable Smart Windows with Integrated Photovoltaic Devices (Adv.) Tj ETQq1 1 0.784314 rgBT /Over 19.5	19.5	81
46	Enhanced Amplified Spontaneous Emission in Perovskites Using a Flexible Cholesteric Liquid Crystal Reflector. Nano Letters, 2015, 15, 4935-4941.	9.1	117
47	Improving the stability of organosiloxane smectic A liquid crystal random lasers using redox dopants. Optical Materials, 2015, 42, 441-448.	3.6	7
48	Optically Switchable Smart Windows with Integrated Photovoltaic Devices. Advanced Energy Materials, 2015, 5, 1401347.	19.5	81
49	High speed liquid crystal over silicon display based on the flexoelectro-optic effect. Optics Express, 2009, 17, 7130.	3.4	23