

Stephen M Morris

List of Publications by Year in descending order

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citations

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52
all docs

52
docs citations

52
times ranked

3260
citing authors

#	ARTICLE	IF	CITATIONS
1	Structured Organic-Inorganic Perovskite toward a Distributed Feedback Laser. <i>Advanced Materials</i> , 2016, 28, 923-929.	21.0	257
2	Monolayer optical memory cells based on artificial trap-mediated charge storage and release. <i>Nature Communications</i> , 2017, 8, 14734.	12.8	184
3	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
4	Enhanced Amplified Spontaneous Emission in Perovskites Using a Flexible Cholesteric Liquid Crystal Reflector. <i>Nano Letters</i> , 2015, 15, 4935-4941.	9.1	117
5	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
6	Optically Switchable Smart Windows with Integrated Photovoltaic Devices. <i>Advanced Energy Materials</i> , 2015, 5, 1401347.	19.5	81
7	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
8	Direct Epitaxial Synthesis of Selective Two-Dimensional Lateral Heterostructures. <i>ACS Nano</i> , 2019, 13, 13047-13055.	14.6	52
9	Solubility-Dependent NiMoO ₄ Nanoarchitectures: Direct Correlation between Rationally Designed Structure and Electrochemical Pseudokinetics. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 35227-35234.	8.0	37
10	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
11	Spatially Patterned Polymer Dispersed Liquid Crystals for Image-Integrated Smart Windows. <i>Advanced Optical Materials</i> , 2022, 10, .	7.3	36
12	Enhanced Ferroelectric Property of P(VDF-TrFE) Film Using Room-Temperature Crystallization for High-Performance Ferroelectric Device Applications. <i>Advanced Electronic Materials</i> , 2016, 2, 1600225.	5.1	34
13	Electrically-tunable positioning of topological defects in liquid crystals. <i>Nature Communications</i> , 2020, 11, 2203.	12.8	34
14	Read on Demand Images in Laser-Written Polymerizable Liquid Crystal Devices. <i>Advanced Optical Materials</i> , 2018, 6, 1800515.	7.3	31
15	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
16	Enhanced charge carrier transport properties in colloidal quantum dot solar cells via organic and inorganic hybrid surface passivation. <i>Journal of Materials Chemistry A</i> , 2016, 4, 18769-18775.	10.3	29
17	High speed liquid crystal over silicon display based on the flexoelectro-optic effect. <i>Optics Express</i> , 2009, 17, 7130.	3.4	23
18	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

#	ARTICLE	IF	CITATIONS
19	Localised polymer networks in chiral nematic liquid crystals for high speed photonic switching. <i>Journal of Applied Physics</i> , 2016, 119, .	2.5	20
20	Room Temperature Wafer-Scale Synthesis of Highly Transparent, Conductive CuS Nanosheet Films via a Simple Sulfur Adsorption-Corrosion Method. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 4244-4252.	8.0	19
21	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
22	3D Switchable Diffractive Optical Elements Fabricated with Two-Photon Polymerization. <i>Advanced Optical Materials</i> , 2022, 10, .	7.3	16
23	A Thin-Film Flexible Defect-Mode Laser. <i>Advanced Optical Materials</i> , 2020, 8, 1901891.	7.3	14
24	Drop-on-Demand Inkjet Printing of Thermally Tunable Liquid Crystal Microlenses. <i>Advanced Engineering Materials</i> , 2018, 20, 1700774.	3.5	13
25	Speckle contrast reduction of laser light using a chiral nematic liquid crystal diffuser. <i>Applied Physics Letters</i> , 2016, 109, .	3.3	12
26	Flexoelectro-optic liquid crystal analog phase-only modulator with a 2 π range and 1 μ s switching. <i>Optics Letters</i> , 2018, 43, 4362.	3.3	12
27	Plasmonic Effects of Dual-Metal Nanoparticle Layers for High-Performance Quantum Dot Solar Cells. <i>Plasmonics</i> , 2020, 15, 1007-1013.	3.4	12
28	Two-Photon Laser-Written Photoalignment Layers for Patterning Liquid Crystalline Conjugated Polymer Orientation. <i>Advanced Functional Materials</i> , 2021, 31, 2007493.	14.9	12
29	A Compact Full 2 π Flexoelectro-Optic Liquid Crystal Phase Modulator. <i>Advanced Materials Technologies</i> , 2020, 5, 2000589.	5.8	9
30	Electrically Tunable Printed Bifocal Liquid Crystal Microlens Arrays. <i>Advanced Materials Interfaces</i> , 2020, 7, 2000578.	3.7	9
31	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
32	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
33	Improving the stability of organosiloxane smectic A liquid crystal random lasers using redox dopants. <i>Optical Materials</i> , 2015, 42, 441-448.	3.6	7
34	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
35	Millisecond Optical Phase Modulation Using Multipass Configurations with Liquid-Crystal Devices. <i>Physical Review Applied</i> , 2020, 14, .	3.8	7
36	Flexible Solar Cells: Charge Transport Modulation of a Flexible Quantum Dot Solar Cell Using a Piezoelectric Effect (Adv. Energy Mater. 3/2018). <i>Advanced Energy Materials</i> , 2018, 8, 1870012.	19.5	6

#	ARTICLE	IF	CITATIONS
37	Dynamic response of large tilt-angle flexoelectro-optic liquid crystal modulators. Optics Express, 2019, 27, 15184.	3.4	5
38	Chiral switches bring new twist to photonics. Nature Photonics, 2022, 16, 174-175.	31.4	5
39	Characterization of large tilt-angle flexoelectro-optic switching in chiral nematic liquid crystal devices. Liquid Crystals, 2019, 46, 408-414.	2.2	3
40	Active Metamaterials with Negative Static Electric Susceptibility. Advanced Materials, 2020, 32, e1904863.	21.0	3
41	Laser Speckle Reduction Using a Liquid Crystal Diffuser Enhanced with Redox Dopants. Advanced Photonics Research, 2021, 2, 2000184.	3.6	3
42	Porous nematic microfluidics for generation of umbilic defects and umbilic defect lattices. Physical Review Fluids, 2016, 1, .	2.5	3
43	Robust measurement of flexoelectro-optic switching with different surface alignments. Journal of Applied Physics, 2019, 125, 093104.	2.5	2
44	Transmissive flexoelectro-optic liquid crystal optical phase modulator with 2 π modulation. AIP Advances, 2020, 10, 055011.	1.3	2
45	Free-Form Laser Profilometry for Pipeline Inspection and 3D Cylindrical Reconstructions. IEEE Sensors Journal, 2022, 22, 297-303.	4.7	2
46	Energy Harvesting: Optically Switchable Smart Windows with Integrated Photovoltaic Devices (Adv.) Tj ETQq0 0 0 r gBT /Overlock 10 Tf	19.5	1
47	Flexible Lasers: A Thin-Film Flexible Defect-Mode Laser (Advanced Optical Materials 8/2020). Advanced Optical Materials, 2020, 8, 2070034.	7.3	1
48	Dynamic phase measurement of fast liquid crystal phase modulators. Optics Express, 2022, 30, 24788.	3.4	1
49	Stabilizing the uniform lying helix alignment in chiral nematic liquid crystals using direct laser writing. Ferroelectrics, 2016, 495, 167-173.	0.6	0