

Michael E Mcconney

List of Publications by Year in descending order

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63
papers

4,021
citations

136885

32
h-index

138417

58
g-index

63
all docs

63
docs citations

63
times ranked

4885
citing authors

#	ARTICLE	IF	CITATIONS
1	Voxelated liquid crystal elastomers. <i>Science</i> , 2015, 347, 982-984.	6.0	863
2	Acoustically actuated ultra-compact NEMS magnetoelectric antennas. <i>Nature Communications</i> , 2017, 8, 296.	5.8	299
3	Dynamic color in stimuli-responsive cholesteric liquid crystals. <i>Journal of Materials Chemistry</i> , 2010, 20, 9832.	6.7	276
4	Probing Soft Matter with the Atomic Force Microscopies: Imaging and Force Spectroscopy. <i>Polymer Reviews</i> , 2010, 50, 235-286.	5.3	215
5	Topography from Topology: Photoinduced Surface Features Generated in Liquid Crystal Polymer Networks. <i>Advanced Materials</i> , 2013, 25, 5880-5885.	11.1	194
6	Continuous ultra-thin MoS ₂ films grown by low-temperature physical vapor deposition. <i>Applied Physics Letters</i> , 2014, 104, .	1.5	178
7	Biologically inspired design of hydrogel-capped hair sensors for enhanced underwater flow detection. <i>Soft Matter</i> , 2009, 5, 292-295.	1.2	114
8	Color-Tunable Mirrors Based on Electrically Regulated Bandwidth Broadening in Polymer-Stabilized Cholesteric Liquid Crystals. <i>ACS Photonics</i> , 2014, 1, 1033-1041.	3.2	101
9	Bioinspired Material Approaches to Sensing. <i>Advanced Functional Materials</i> , 2009, 19, 2527-2544.	7.8	93
10	Contactless, photoinitiated snap-through in azobenzene-functionalized polymers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 18792-18797.	3.3	92
11	Amorphous Boron Nitride: A Universal, Ultrathin Dielectric For 2D Nanoelectronics. <i>Advanced Functional Materials</i> , 2016, 26, 2640-2647.	7.8	90
12	Polymeric Nanolayers as Actuators for Ultrasensitive Thermal Bimorphs. <i>Nano Letters</i> , 2006, 6, 730-734.	4.5	88
13	Thermally Induced, Multicolored Hyper-Reflective Cholesteric Liquid Crystals. <i>Advanced Materials</i> , 2011, 23, 1453-1457.	11.1	84
14	Coexistence of Low Damping and Strong Magnetoelastic Coupling in Epitaxial Spinel Ferrite Thin Films. <i>Advanced Materials</i> , 2017, 29, 1701130.	11.1	71
15	Thermo-Optical Arrays of Flexible Nanoscale Nanomembranes Freely Suspended over Microfabricated Cavities as IR Microimagers. <i>Chemistry of Materials</i> , 2006, 18, 2632-2634.	3.2	66
16	Photoinduced hyper-reflective cholesteric liquid crystals enabled via surface initiated photopolymerization. <i>Chemical Communications</i> , 2011, 47, 505-507.	2.2	64
17	Electrically Induced Color Changes in Polymer-Stabilized Cholesteric Liquid Crystals. <i>Advanced Optical Materials</i> , 2013, 1, 417-421.	3.6	63
18	Bandwidth broadening induced by ionic interactions in polymer stabilized cholesteric liquid crystals. <i>Optical Materials Express</i> , 2014, 4, 1465.	1.6	63

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19	Viscoelastic nanoscale properties of cuticle contribute to the high-pass properties of spider vibration receptor (<i>Cupiennius salei</i> Keys). <i>Journal of the Royal Society Interface</i> , 2007, 4, 1135-1143.	1.5	53
20	Characterization of magnetomechanical properties in FeGaB thin films. <i>Applied Physics Letters</i> , 2018, 113, .	1.5	53
21	Optimal Bandgap in a 2D Ruddlesden-Popper Perovskite Chalcogenide for Single-Junction Solar Cells. <i>Chemistry of Materials</i> , 2018, 30, 4882-4886.	3.2	49
22	Surface force spectroscopic point load measurements and viscoelastic modelling of the micromechanical properties of air flow sensitive hairs of a spider (<i>Cupiennius salei</i>). <i>Journal of the Royal Society Interface</i> , 2009, 6, 681-694.	1.5	44
23	Direct synthesis of ultra-thin large area transition metal dichalcogenides and their heterostructures on stretchable polymer surfaces. <i>Journal of Materials Research</i> , 2016, 31, 967-974.	1.2	44
24	Photonic crystallization of two-dimensional MoS ₂ for stretchable photodetectors. <i>Nanoscale</i> , 2019, 11, 13260-13268.	2.8	43
25	Advances in Transparent Planar Optics: Enabling Large Aperture, Ultrathin Lenses. <i>Advanced Optical Materials</i> , 2021, 9, 2001692.	3.6	43
26	Continuous wave mirrorless lasing in cholesteric liquid crystals with a pitch gradient across the cell gap. <i>Optics Letters</i> , 2012, 37, 2904.	1.7	42
27	Dynamic high contrast reflective coloration from responsive polymer/cholesteric liquid crystal architectures. <i>Soft Matter</i> , 2012, 8, 318-323.	1.2	38
28	Spontaneous Self-Folding in Confined Ultrathin Polymer Gels. <i>Advanced Materials</i> , 2010, 22, 1263-1268.	11.1	37
29	Swelling-Induced Folding in Confined Nanoscale Responsive Polymer Gels. <i>ACS Nano</i> , 2010, 4, 2327-2337.	7.3	37
30	Crystal growth and structural analysis of perovskite chalcogenide BaZrS ₃ and Ruddlesden-Popper phase Ba ₃ Zr ₂ S ₇ . <i>Journal of Materials Research</i> , 2019, 34, 3819-3826.	1.2	36
31	Hydrogel microstructures combined with electrospun fibers and photopatterning for shape and modulus control. <i>Polymer</i> , 2008, 49, 5284-5293.	1.8	34
32	Photoresponsive Structural Color in Liquid Crystalline Materials. <i>Advanced Optical Materials</i> , 2019, 7, 1900429.	3.6	34
33	A Facile Fabrication Strategy for Patterning Protein Chain Conformation in Silk Materials. <i>Advanced Materials</i> , 2010, 22, 115-119.	11.1	33
34	Nanorod decorated nanowires as highly efficient SERS-active hybrids. <i>Journal of Materials Chemistry</i> , 2011, 21, 15218.	6.7	32
35	Spin-orbit torque and spin pumping in YIG/Pt with interfacial insertion layers. <i>Applied Physics Letters</i> , 2018, 112, .	1.5	28
36	Integrated magnetoelectric devices: Filters, pico-Tesla magnetometers, and ultracompact acoustic antennas. <i>MRS Bulletin</i> , 2018, 43, 841-847.	1.7	28

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37	Facile Plasma-Enhanced Deposition of Ultrathin Crosslinked Amino Acid Films for Conformal Biometallization. <i>Small</i> , 2009, 5, 741-749.	5.2	26
38	Electrically Induced Splitting of the Selective Reflection in Polymer Stabilized Cholesteric Liquid Crystals. <i>Advanced Optical Materials</i> , 2020, 8, 2000914.	3.6	23
39	Large-area ultrathin Te films with substrate-tunable orientation. <i>Nanoscale</i> , 2020, 12, 12613-12622.	2.8	22
40	Integrated Tunable Magnetolectric RF Inductors. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2020, 68, 951-963.	2.9	20
41	Metalized Porous Interference Lithographic Microstructures via Biofunctionalization. <i>Advanced Materials</i> , 2010, 22, 1369-1373.	11.1	17
42	Electrical Control of Unpolarized Reflectivity in Polymer-Stabilized Cholesteric Liquid Crystals at Oblique Incidence. <i>Advanced Optical Materials</i> , 2018, 6, 1800957.	3.6	17
43	Optically detected ferromagnetic resonance in diverse ferromagnets via nitrogen vacancy centers in diamond. <i>Journal of Applied Physics</i> , 2019, 126, .	1.1	17
44	Role of Alicyclic Conformation-Isomerization in the Photomechanical Performance of Azobenzene-Functionalized Cross-Linked Polyimides Containing Tetra-Substituted Cyclohexane Moieties. <i>ACS Macro Letters</i> , 2021, 10, 278-283.	2.3	17
45	A New Twist on Scanning Thermal Microscopy. <i>Nano Letters</i> , 2012, 12, 1218-1223.	4.5	16
46	Giant surfactants for the construction of automatic liquid crystal alignment layers. <i>Journal of Materials Chemistry C</i> , 2019, 7, 8500-8514.	2.7	16
47	Reconfigurable Reflective Colors in Holographically Patterned Liquid Crystal Gels. <i>ACS Photonics</i> , 2020, 7, 1978-1982.	3.2	15
48	Electro- and Photo-Driven Orthogonal Switching of a Helical Superstructure Enabled by an Axially Chiral Molecular Switch. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 55215-55222.	4.0	14
49	Optimization of acoustically-driven ferromagnetic resonance devices. <i>Journal of Applied Physics</i> , 2019, 126, .	1.1	13
50	The contribution of chirality and crosslinker concentration to reflection wavelength tuning in structurally chiral nematic gels. <i>Journal of Materials Chemistry C</i> , 2014, 2, 132-138.	2.7	9
51	A Different Perspective on Cholesteric Liquid Crystals Reveals Unique Color and Polarization Changes. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 37400-37408.	4.0	9
52	Topological Antiferromagnetic Van der Waals Phase in Topological Insulator/Ferromagnet Heterostructures Synthesized by a CMOS-Compatible Sputtering Technique. <i>Advanced Materials</i> , 2022, 34, e2108790.	11.1	9
53	Size, weight, and power breakthrough in nonmechanical beam and line-of-sight steering with geo-phase optics. <i>Applied Optics</i> , 2021, 60, G154.	0.9	8
54	Responsive plasma polymerized ultrathin nanocomposite films. <i>Polymer</i> , 2012, 53, 4686-4693.	1.8	7

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55	Cycloidal diffractive waveplates fabricated using a high-power diode-pumped solid-state laser operating at 532Ånm. Journal of the Optical Society of America B: Optical Physics, 2019, 36, D136.	0.9	6
56	Temperature dependent resonant microwave absorption in perpendicular magnetic anisotropy epitaxial films of a spinel ferrite. Journal of Applied Physics, 2019, 125, .	1.1	5
57	Parallel pumping of spin waves in a ferromagnet revisited. Journal of Magnetism and Magnetic Materials, 2019, 490, 165486.	1.0	5
58	Switchable, broadband, polarization-independent diffractive optical components and systems. , 2018, , .		3
59	Electrically switchable large, thin, and fast optics. , 2018, , .		3
60	Nanoelectronics: Amorphous Boron Nitride: A Universal, Ultrathin Dielectric For 2D Nanoelectronics (Adv. Funct. Mater. 16/2016). Advanced Functional Materials, 2016, 26, 2771-2771.	7.8	2
61	Liquid Crystals: Thermally Induced, Multicolored Hyper-Reflective Cholesteric Liquid Crystals (Adv.) Tj ETQq1 1 0.784314 rgBT ₀ /Overlo	11.1	0
62	Homoepitaxial Mn ₃ Ge films on ultra-thin Fe seed layer with high perpendicular magnetic anisotropy. Journal of Magnetism and Magnetic Materials, 2020, 514, 167146.	1.0	0
63	Director grating and two-beam energy exchange in a hybrid photorefractive cholesteric cell with a helicoidal polymer network. Journal of Applied Physics, 2020, 127, 125502.	1.1	0