

# Mikel B Holcomb

## List of Publications by Year in descending order

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44  
papers

4,774  
citations

361413

20  
h-index

276875

41  
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48  
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docs citations

48  
times ranked

5523  
citing authors

#	ARTICLE	IF	CITATIONS
1	Spin dynamics and relaxation in 7.6 nm thin film of La <sub>0.7</sub> Sr <sub>0.3</sub> MnO <sub>3</sub> /SrTiO <sub>3</sub> : ac magnetic susceptibility and magnetic viscosity investigations. Journal of Applied Physics, 2020, 128, 073903.	2.5	6
2	Effects of Oxygen Modification on the Structural and Magnetic Properties of Highly Epitaxial La <sub>0.7</sub> Sr <sub>0.3</sub> MnO <sub>3</sub> (LSMO) thin films. Scientific Reports, 2020, 10, 3659.	3.3	35
3	Tuning the magnetic phase transition above room temperature through Fe and Mn modification in gallium ferrite with reduced leakage current. Journal Physics D: Applied Physics, 2020, 53, 225001.	2.8	4
4	Magnetocaloric investigations show magnetic inhomogeneity in a 7.6Ånm thin film of La <sub>0.7</sub> Sr <sub>0.3</sub> MnO <sub>3</sub> /SrTiO <sub>3</sub> . Journal of Alloys and Compounds, 2020, 826, 154200.	5.5	7
5	Observation of relaxor-ferroelectric behavior in gallium ferrite thin films. Applied Surface Science, 2020, 523, 146459.	6.1	3
6	Electronic state and concentration of Fe <sup>3+</sup> in CuAl <sub>1-x</sub> Fe <sub>2x</sub> O <sub>4</sub> determined by magnetic measurements. Journal of Magnetism and Magnetic Materials, 2019, 471, 495-500.	2.3	12
7	Explaining the Magnetic Properties of Oxygen Deficient LSMO Thin Films by iDPC. Microscopy and Microanalysis, 2019, 25, 1748-1749.	0.4	0
8	Effect of oxygen stoichiometry on the magnetization profiles and negative magnetization in LSMO thin films. Journal of Applied Physics, 2019, 126, 105301.	2.5	4
9	Controlling the transverse proton relaxivity of magnetic graphene oxide. Scientific Reports, 2019, 9, 5633.	3.3	14
10	Studies of Multiferroic Palladium Perovskites. Scientific Reports, 2019, 9, 1685.	3.3	8
11	Surface Recombination in Ultra-Fast Carrier Dynamics of Perovskite Oxide La <sub>0.7</sub> Sr <sub>0.3</sub> MnO <sub>3</sub> Thin Films. ACS Nano, 2019, 13, 3457-3465.	14.6	15
12	Application of wavelet analysis on transient reflectivity in ultra-thin films. Optics Express, 2019, 27, 14684.	3.4	3
13	Modification of the Chemisorption Properties of Epitaxial Delafossite CuFeO <sub>2</sub> Thin Films by Substituting Fe for Ga in the Crystal Structure. Topics in Catalysis, 2018, 61, 1193-1200.	2.8	1
14	Insights into the magnetic dead layer in La <sub>0.7</sub> Sr <sub>0.3</sub> MnO <sub>3</sub> thin films from temperature, magnetic field and thickness dependence of their magnetization. AIP Advances, 2018, 8, .	1.3	21
15	Depth Dependence Investigation of Manganese Charge State in Oxygen-deficient LSMO Thin Films. Microscopy and Microanalysis, 2018, 24, 1476-1477.	0.4	0
16	Electrostatic potential and valence modulation in La <sub>0.7</sub> Sr <sub>0.3</sub> MnO <sub>3</sub> thin films. Scientific Reports, 2018, 8, 14313.	3.3	8
17	Observation and interpretation of negative remanent magnetization and inverted hysteresis loops in a thin film of La <sub>0.7</sub> Sr <sub>0.3</sub> MnO <sub>3</sub> . Journal of Physics Condensed Matter, 2018, 30, 405804.	1.8	11
18	Depth-dependent atomic valence determination by synchrotron techniques. Journal of Synchrotron Radiation, 2018, 25, 1711-1718.	2.4	0

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19	Combined EELS and XAS Analysis of the Relationship between Depth Dependence and Valence in LSMO Thin Films. <i>Microscopy and Microanalysis</i> , 2017, 23, 1600-1601.	0.4	0
20	Effect of Mn doping on ultrafast carrier dynamics in thin films of the topological insulator $\text{Bi}_2\text{Se}_3$ . <i>Journal of Physics Condensed Matter</i> , 2016, 28, 165601.	1.8	17
21	Nonlinear optical observation of coherent acoustic Dirac plasmons in thin-film topological insulators. <i>Nature Communications</i> , 2016, 7, 13054.	12.8	30
22	Structural properties of $\text{Bi}_2\text{MnSe}_3$ thin films grown via molecular beam epitaxy. <i>Journal of Applied Physics</i> , 2015, 118, .	2.5	6
23	Thickness dependence of $\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3/\text{PbZr}_{0.2}\text{Ti}_{0.8}\text{O}_3$ magnetoelectric interfaces. <i>Applied Physics Letters</i> , 2015, 107, .	3.3	12
24	Imaging magnetic and ferroelectric domains and interfacial spins in magnetoelectric $\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3/\text{PbZr}_{0.2}\text{Ti}_{0.8}\text{O}_3$ heterostructures. <i>Journal of Physics Condensed Matter</i> , 2015, 27, 504003.	1.8	5
25	Structural and magnetic properties of epitaxial delafossite $\text{CuFeO}_2$ thin films grown by pulsed laser deposition. <i>Journal of Applied Physics</i> , 2015, 117.	2.5	37
26	Resonance-type thickness dependence of optical second-harmonic generation in thin films of the topological insulator $\text{Bi}_2\text{Se}_3$ . <i>Applied Physics Letters</i> , 2014, 105, .	3.2	29
27	Phase Diagram of a Three-Dimensional Antiferromagnet with Random Magnetic Anisotropy. <i>Physical Review Letters</i> , 2015, 114, 097201.	7.8	6
28	Acoustic phonon dynamics in thin-films of the topological insulator $\text{Bi}_2\text{Se}_3$ . <i>Journal of Applied Physics</i> , 2015, 117, 165703.	2.5	32
29	Effect of carrier recombination on ultrafast carrier dynamics in thin films of the topological insulator $\text{Bi}_2\text{Se}_3$ . <i>Applied Physics Letters</i> , 2014, 105, .	3.3	42
30	Ultrafast carrier dynamics in thin-films of the topological insulator $\text{Bi}_2\text{Se}_3$ . <i>Applied Physics Letters</i> , 2013, 103, .	3.3	99
31	Ultrathin Limit of Exchange Bias Coupling at Oxide Multiferroic/Ferromagnetic Interfaces. <i>Advanced Materials</i> , 2013, 25, 4739-4745.	21.0	59
32	X-ray linear dichroism dependence on ferroelectric polarization. <i>Journal of Physics Condensed Matter</i> , 2012, 24, 245902.	1.8	13
33	INVESTIGATING ELECTRIC FIELD CONTROL OF MAGNETISM WITH NEUTRON SCATTERING, NONLINEAR OPTICS AND SYNCHROTRON X-RAY SPECTROMICROSCOPY. <i>International Journal of Modern Physics B</i> , 2012, 26, 1230004.	2.0	11
34	Probing the evolution of antiferromagnetism in multiferroics. <i>Physical Review B</i> , 2010, 81, .	3.2	70
35	Electric modulation of conduction in multiferroic Ca-doped $\text{BiFeO}_3$ films. <i>Nature Materials</i> , 2009, 8, 485-493.	27.5	481
36	Electric-field control of local ferromagnetism using a magnetoelectric multiferroic. <i>Nature Materials</i> , 2008, 7, 478-482.	27.5	1,219

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37	Nanoscale Control of Exchange Bias with BiFeO <sub>3</sub> Thin Films. Nano Letters, 2008, 8, 2050-2055.	9.1	270
38	Critical thickness and orbital ordering in ultrathin $\text{La}_{1-x}\text{Sr}_x\text{MnO}_3$ thin films. Physical Review B, 2008, 78, .	3.2	379
39	Multiferroics and magnetoelectrics: thin films and nanostructures. Journal of Physics Condensed Matter, 2008, 20, 434220.	1.8	292
40	Nanoscale x-ray magnetic circular dichroism probing of electric-field-induced magnetic switching in multiferroic nanostructures. Applied Physics Letters, 2007, 90, 123104.	3.3	23
41	Controlling magnetism with multiferroics. Materials Today, 2007, 10, 16-23.	14.2	245
42	Epitaxial Multiferroic BiFeO <sub>3</sub> Thin Films: Progress and Future Directions. Ferroelectrics, 2007, 354, 167-177.	0.6	46
43	Magnetoelectric complex-oxide heterostructures. Philosophical Magazine Letters, 2007, 87, 155-164.	1.2	11
44	Electrical control of antiferromagnetic domains in multiferroic BiFeO <sub>3</sub> films at room temperature. Nature Materials, 2006, 5, 823-829.	27.5	1,160