

Mikel B Holcomb

List of Publications by Year in descending order

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44
papers

4,774
citations

361045

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276539

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48
all docs

48
docs citations

48
times ranked

5523
citing authors

#	ARTICLE	IF	CITATIONS
1	Electric-field control of local ferromagnetism using a magnetoelectric multiferroic. Nature Materials, 2008, 7, 478-482.	13.3	1,219
2	Electrical control of antiferromagnetic domains in multiferroic BiFeO ₃ films at room temperature. Nature Materials, 2006, 5, 823-829.	13.3	1,160
3	Electric modulation of conduction in multiferroic Ca-doped BiFeO ₃ films. Nature Materials, 2009, 8, 485-493.	13.3	481
4	Critical thickness and orbital ordering in ultrathin $\text{La}_{1-x}\text{Sr}_x\text{MnO}_3$. Physical Review B, 2008, 78, .	11.1	879
5	Multiferroics and magnetoelectrics: thin films and nanostructures. Journal of Physics Condensed Matter, 2008, 20, 434220.	0.7	292
6	Nanoscale Control of Exchange Bias with BiFeO ₃ Thin Films. Nano Letters, 2008, 8, 2050-2055.	4.5	270
7	Controlling magnetism with multiferroics. Materials Today, 2007, 10, 16-23.	8.3	245
8	Ultrafast carrier dynamics in thin-films of the topological insulator Bi ₂ Se ₃ . Applied Physics Letters, 2013, 103, .	1.5	99
9	Probing the evolution of antiferromagnetism in multiferroics. Physical Review B, 2010, 81, .	1.1	70
10	Ultrathin Limit of Exchange Bias Coupling at Oxide Multiferroic/Ferromagnetic Interfaces. Advanced Materials, 2013, 25, 4739-4745.	11.1	59
11	Epitaxial Multiferroic BiFeO ₃ Thin Films: Progress and Future Directions. Ferroelectrics, 2007, 354, 167-177.	0.3	46
12	Effect of carrier recombination on ultrafast carrier dynamics in thin films of the topological insulator Bi ₂ Se ₃ . Applied Physics Letters, 2014, 105, .	1.5	42
13	Structural and magnetic properties of epitaxial delafossite CuFeO ₂ thin films grown by pulsed laser deposition. Journal of Applied Physics, 2015, 117, .	1.1	37
14	Effects of Oxygen Modification on the Structural and Magnetic Properties of Highly Epitaxial La _{0.7} Sr _{0.3} MnO ₃ (LSMO) thin films. Scientific Reports, 2020, 10, 3659.	1.6	35
15	Acoustic phonon dynamics in thin-films of the topological insulator Bi ₂ Se ₃ . Journal of Applied Physics, 2015, 117, 165703.	1.1	32
16	Nonlinear optical observation of coherent acoustic Dirac plasmons in thin-film topological insulators. Nature Communications, 2016, 7, 13054.	5.8	30
17	Resonance-type thickness dependence of optical second-harmonic generation in thin films of the topological insulator Bi_2Se_3 . Applied Physics Letters, 2015, 107, 161101.	1.1	29
18	Nanoscale x-ray magnetic circular dichroism probing of electric-field-induced magnetic switching in multiferroic nanostructures. Applied Physics Letters, 2007, 90, 123104.	1.5	23

#	ARTICLE	IF	CITATIONS
19	Insights into the magnetic dead layer in La _{0.7} Sr _{0.3} MnO ₃ thin films from temperature, magnetic field and thickness dependence of their magnetization. AIP Advances, 2018, 8, .	0.6	21
20	Effect of Mn doping on ultrafast carrier dynamics in thin films of the topological insulator Bi ₂ Se ₃ . Journal of Physics Condensed Matter, 2016, 28, 165601.	0.7	17
21	Surface Recombination in Ultra-Fast Carrier Dynamics of Perovskite Oxide La _{0.7} Sr _{0.3} MnO ₃ Thin Films. ACS Nano, 2019, 13, 3457-3465.	7.3	15
22	Controlling the transverse proton relaxivity of magnetic graphene oxide. Scientific Reports, 2019, 9, 5633.	1.6	14
23	X-ray linear dichroism dependence on ferroelectric polarization. Journal of Physics Condensed Matter, 2012, 24, 245902.	0.7	13
24	Thickness dependence of La _{0.7} Sr _{0.3} MnO ₃ /PbZr _{0.2} Ti _{0.8} O ₃ magnetoelectric interfaces. Applied Physics Letters, 2015, 107, .	1.5	12
25	Electronic state and concentration of Fe ³⁺ in CuAl _{1-x} Fe _x O ₂ determined by magnetic measurements. Journal of Magnetism and Magnetic Materials, 2019, 471, 495-500.	1.0	12
26	Magnetoelectric complex-oxide heterostructures. Philosophical Magazine Letters, 2007, 87, 155-164.	0.5	11
27	INVESTIGATING ELECTRIC FIELD CONTROL OF MAGNETISM WITH NEUTRON SCATTERING, NONLINEAR OPTICS AND SYNCHROTRON X-RAY SPECTROMICROSCOPY. International Journal of Modern Physics B, 2012, 26, 1230004.	1.0	11
28	Observation and interpretation of negative remanent magnetization and inverted hysteresis loops in a thin film of La _{0.7} Sr _{0.3} MnO ₃ . Journal of Physics Condensed Matter, 2018, 30, 405804.	0.7	11
29	Electrostatic potential and valence modulation in La _{0.7} Sr _{0.3} MnO ₃ thin films. Scientific Reports, 2018, 8, 14313.	1.6	8
30	Studies of Multiferroic Palladium Perovskites. Scientific Reports, 2019, 9, 1685.	1.6	8
31	Magnetocaloric investigations show magnetic inhomogeneity in a 7.6Ånm thin film of La _{0.7} Sr _{0.3} MnO ₃ /SrTiO ₃ . Journal of Alloys and Compounds, 2020, 826, 154200.	2.8	7
32	Structural properties of Bi ₂ MnSe ₃ thin films grown via molecular beam epitaxy. Journal of Applied Physics, 2015, 118, .	1.1	6
33	Phase Diagram of a Three-Dimensional Antiferromagnet with Random Magnetic Anisotropy. Physical Review Letters, 2015, 114, 097201.	2.9	6
34	Spin dynamics and relaxation in 7.6 nm thin film of La _{0.7} Sr _{0.3} MnO ₃ /SrTiO ₃ : ac magnetic susceptibility and magnetic viscosity investigations. Journal of Applied Physics, 2020, 128, 073903.	1.1	6
35	Imaging magnetic and ferroelectric domains and interfacial spins in magnetoelectric La _{0.7} Sr _{0.3} MnO ₃ /PbZr _{0.2} Ti _{0.8} O ₃ heterostructures. Journal of Physics Condensed Matter, 2015, 27, 504003.	0.7	5
36	Effect of oxygen stoichiometry on the magnetization profiles and negative magnetization in LSMO thin films. Journal of Applied Physics, 2019, 126, 105301.	1.1	4

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37	Tuning the magnetic phase transition above room temperature through Fe and Mn modification in gallium ferrite with reduced leakage current. <i>Journal Physics D: Applied Physics</i> , 2020, 53, 225001.	1.3	4
38	Observation of relaxor-ferroelectric behavior in gallium ferrite thin films. <i>Applied Surface Science</i> , 2020, 523, 146459.	3.1	3
39	Application of wavelet analysis on transient reflectivity in ultra-thin films. <i>Optics Express</i> , 2019, 27, 14684.	1.7	3
40	Modification of the Chemisorption Properties of Epitaxial Delafossite CuFeO ₂ Thin Films by Substituting Fe for Ga in the Crystal Structure. <i>Topics in Catalysis</i> , 2018, 61, 1193-1200.	1.3	1
41	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.	0.2	0
42	Depth Dependence Investigation of Manganese Charge State in Oxygen-deficient LSMO Thin Films. <i>Microscopy and Microanalysis</i> , 2018, 24, 1476-1477.	0.2	0
43	Depth-dependent atomic valence determination by synchrotron techniques. <i>Journal of Synchrotron Radiation</i> , 2018, 25, 1711-1718.	1.0	0
44	Explaining the Magnetic Properties of Oxygen Deficient LSMO Thin Films by iDPC. <i>Microscopy and Microanalysis</i> , 2019, 25, 1748-1749.	0.2	0