

# Mark A Zurbuchen

## List of Publications by Year in descending order

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35  
papers

1,995  
citations

304743

22  
h-index

361022

35  
g-index

35  
all docs

35  
docs citations

35  
times ranked

3388  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Thin Film Approach to Engineering Functionality into Oxides. Journal of the American Ceramic Society, 2008, 91, 2429-2454.	3.8	452
2	Crossover from incoherent to coherent phonon scattering in epitaxial oxide superlattices. Nature Materials, 2014, 13, 168-172.	27.5	399
3	Towards van der Waals Epitaxial Growth of GaAs on Si using a Graphene Buffer Layer. Advanced Functional Materials, 2014, 24, 6629-6638.	14.9	113
4	Observation of magnetoelectric effect in epitaxial ferroelectric film/manganite crystal heterostructures. Physical Review B, 2006, 73, .	3.2	93
5	Morphology, structure, and nucleation of out-of-phase boundaries (OPBs) in epitaxial films of layered oxides. Journal of Materials Research, 2007, 22, 1439-1471.	2.6	80
6	Epitaxial growth of non-c-oriented SrBi <sub>2</sub> Nb <sub>2</sub> O <sub>9</sub> on (111) SrTiO <sub>3</sub> . Applied Physics Letters, 2000, 76, 2937-2939.	3.3	67
7	Epitaxial growth and magnetic properties of the first five members of the layered Sr <sub>n+1</sub> Ru <sub>n</sub> O <sub>3n+1</sub> oxide series. Applied Physics Letters, 2007, 90, 022507.	3.3	65
8	Multiferroic composite ferroelectric-ferromagnetic films. Applied Physics Letters, 2005, 87, 232908.	3.3	64
9	Depth-graded multilayers for application in transmission geometry as linear zone plates. Journal of Applied Physics, 2005, 98, 113519.	2.5	57
10	Ferroelectric domain structures in SrBi <sub>2</sub> Nb <sub>2</sub> O <sub>9</sub> epitaxial thin films: Electron microscopy and phase-field simulations. Journal of Applied Physics, 2004, 95, 6332-6340.	2.5	56
11	Ferroelectric Domain Structure of SrBi <sub>2</sub> Nb <sub>2</sub> O <sub>9</sub> Epitaxial Thin Films. Physical Review Letters, 2002, 88, 107601.	7.8	48
12	Bismuth volatility effects on the perfection of SrBi <sub>2</sub> Nb <sub>2</sub> O <sub>9</sub> and SrBi <sub>2</sub> Ta <sub>2</sub> O <sub>9</sub> films. Applied Physics Letters, 2003, 82, 4711-4713.	3.3	46
13	Suppression of superconductivity by crystallographic defects in epitaxial Sr <sub>2</sub> RuO <sub>4</sub> films. Applied Physics Letters, 2001, 78, 2351-2353.	3.3	43
14	Crossover in thermal transport properties of natural, perovskite-structured superlattices. Applied Physics Letters, 2009, 95, .	3.3	42
15	Growth of (103) fiber-textured SrBi <sub>2</sub> Nb <sub>2</sub> O <sub>9</sub> films on Pt-coated silicon. Applied Physics Letters, 2002, 80, 2371-2373.	3.3	41
16	Synthesis and Characterization of BiFeO <sub>3</sub> Thin Films for Multiferroic Applications by Radical Enhanced Atomic Layer Deposition. Chemistry of Materials, 2015, 27, 7282-7288.	6.7	40
17	Epitaxial growth of SrBi <sub>2</sub> Nb <sub>2</sub> O <sub>9</sub> on (110) SrTiO <sub>3</sub> and the establishment of a lower bound on the spontaneous polarization of SrBi <sub>2</sub> Nb <sub>2</sub> O <sub>9</sub> . Applied Physics Letters, 2000, 77, 3090-3092.	3.3	32
18	Enhanced voltage-controlled magnetic anisotropy in magnetic tunnel junctions with an MgO/PZT/MgO tunnel barrier. Applied Physics Letters, 2016, 108, .	3.3	32

#	ARTICLE	IF	CITATIONS
19	Synthesis and characterization of an n=6 Aurivillius phase incorporating magnetically active manganese, Bi <sub>7</sub> (Mn,Ti)6O <sub>21</sub> . Applied Physics Letters, 2007, 91, 033113.	3.3	29
20	Magnetic Properties of CoFe <sub>2</sub> O <sub>4</sub> Thin Films Synthesized by Radical-Enhanced Atomic Layer Deposition. ACS Applied Materials & Interfaces, 2017, 9, 36980-36988.	8.0	28
21	Low thermal conductivity of CsBiNb <sub>2</sub> O <sub>7</sub> epitaxial layers. Applied Physics Letters, 2010, 96, .	3.3	25
22	Theoretical and experimental study of highly textured GaAs on silicon using a graphene buffer layer. Journal of Crystal Growth, 2015, 425, 268-273.	1.5	25
23	Defect generation by preferred nucleation in epitaxial Sr <sub>2</sub> RuO <sub>4</sub> /LaAlO <sub>3</sub> . Applied Physics Letters, 2003, 83, 3891-3893.	3.3	20
24	Epitaxial growth of metastable Ba <sub>2</sub> RuO <sub>4</sub> films with the K <sub>2</sub> NiF <sub>4</sub> structure. Applied Physics Letters, 1999, 74, 3830-3832.	3.3	15
25	Synthesis, structure, and electrical behavior of Sr <sub>4</sub> Bi <sub>4</sub> Ti <sub>7</sub> O <sub>24</sub> . Journal of Applied Physics, 2010, 107, .	2.5	15
26	Transmission electron microscopy study of (103)-oriented epitaxial SrBi <sub>2</sub> Nb <sub>2</sub> O <sub>9</sub> films grown on (111) SrTiO <sub>3</sub> and (111) SrRuO <sub>3</sub> /(111) SrTiO <sub>3</sub> . Journal of Materials Research, 2001, 16, 489-502.	2.6	14
27	Growth mechanism of cuboid growth pits in lead selenide epilayers grown by molecular beam epitaxy. Journal Physics D: Applied Physics, 2010, 43, 455411.	2.8	12
28	Determination of the thermal conductivity tensor of the n=7 Aurivillius phase Sr <sub>4</sub> Bi <sub>4</sub> Ti <sub>7</sub> O <sub>24</sub> . Applied Physics Letters, 2012, 101, .	3.3	10
29	Atmospheric and Aqueous Deposition of Polycrystalline Metal Oxides Using Mist-CVD for Highly Efficient Inverted Polymer Solar Cells. Nano Letters, 2015, 15, 4948-4954.	9.1	9
30	Synthesis of the superlattice complex oxide Sr <sub>5</sub> Bi <sub>4</sub> Ti <sub>8</sub> O <sub>27</sub> and its band gap behavior. Applied Physics Letters, 2012, 100, .	3.3	8
31	Comment on "High-resolution electron microscopy investigations on stacking faults in SrBi <sub>2</sub> Ta <sub>2</sub> O <sub>9</sub> ferroelectric thin films" [Appl. Phys. Lett. 78, 973 (2001)]. Applied Physics Letters, 2001, 79, 887-888.	3.3	5
32	Microstructure and electrical properties of epitaxial SrBi <sub>2</sub> Nb <sub>2</sub> O <sub>9</sub> And SrBi <sub>2</sub> Ta <sub>2</sub> O <sub>9</sub> films. Integrated Ferroelectrics, 2001, 33, 27-37.	0.7	4
33	Strength and Microstructure of Brazed Alumina-Silicon Carbide Ceramic-Matrix Composites. Journal of the American Ceramic Society, 1999, 82, 705-710.	3.8	4
34	New approach to depositing yttria-stabilized zirconia buffer layers for coated conductors. Journal of Materials Research, 2003, 18, 919-928.	2.6	1
35	Out-of-phase Boundary (OPB) Nucleation in Layered Oxides. Materials Research Society Symposia Proceedings, 2005, 902, 1.	0.1	1