Mark A Zurbuchen

List of Publications by Year
in descending order

35	1,995	304743	361022
papers	citations	22 h-index	35 g-index

35	35	35	3388
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Magnetic Properties of CoFe₂O₄ Thin Films Synthesized by Radical-Enhanced Atomic Layer Deposition. ACS Applied Materials & Interfaces, 2017, 9, 36980-36988.	8.0	28
2	Enhanced voltage-controlled magnetic anisotropy in magnetic tunnel junctions with an MgO/PZT/MgO tunnel barrier. Applied Physics Letters, 2016, 108, .	3.3	32
3	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
4	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
5	Synthesis and Characterization of BiFeO₃ Thin Films for Multiferroic Applications by Radical Enhanced Atomic Layer Deposition. Chemistry of Materials, 2015, 27, 7282-7288.	6.7	40
6	Crossover from incoherent to coherent phonon scattering in epitaxial oxide superlattices. Nature Materials, 2014, 13, 168-172.	27.5	399
7	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
8	Synthesis of the superlattice complex oxide Sr5Bi4Ti8O27 and its band gap behavior. Applied Physics Letters, 2012, 100, .	3.3	8
9	Determination of the thermal conductivity tensor of the nâ€‰=â€‰7 Aurivillius phase Sr4Bi4Ti7O24. Applied Physics Letters, 2012, 101, .	3.3	10
10	Low thermal conductivity of CsBiNb2O7 epitaxial layers. Applied Physics Letters, 2010, 96, .	3.3	25
11	Synthesis, structure, and electrical behavior of Sr4Bi4Ti7O24. Journal of Applied Physics, 2010, 107, .	2.5	15
12	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
13	Crossover in thermal transport properties of natural, perovskite-structured superlattices. Applied Physics Letters, 2009, 95, .	3.3	42
14	A Thin Film Approach to Engineering Functionality into Oxides. Journal of the American Ceramic Society, 2008, 91, 2429-2454.	3.8	452
15	Epitaxial growth and magnetic properties of the first five members of the layered Srn+1RunO3n+1 oxide series. Applied Physics Letters, 2007, 90, 022507.	3.3	65
16	Synthesis and characterization of an n=6 Aurivillius phase incorporating magnetically active manganese, Bi7(Mn,Ti)6O21. Applied Physics Letters, 2007, 91, 033113.	3.3	29
17	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
18	Observation of magnetoelectric effect in epitaxial ferroelectric film/manganite crystal heterostructures. Physical Review B, 2006, 73, .	3.2	93

#	Article	IF	Citations
19	Out-of-phase Boundary (OPB) Nucleation in Layered Oxides. Materials Research Society Symposia Proceedings, 2005, 902, 1.	0.1	1
20	Depth-graded multilayers for application in transmission geometry as linear zone plates. Journal of Applied Physics, 2005, 98, 113519.	2.5	57
21	Multiferroic composite ferroelectric-ferromagnetic films. Applied Physics Letters, 2005, 87, 232908.	3.3	64
22	Ferroelectric domain structures in SrBi2Nb2O9 epitaxial thin films: Electron microscopy and phase-field simulations. Journal of Applied Physics, 2004, 95, 6332-6340.	2.5	56
23	New approach to depositing yttria-stabilized zirconia buffer layers for coated conductors. Journal of Materials Research, 2003, 18, 919-928.	2.6	1
24	Bismuth volatility effects on the perfection of SrBi2Nb2O9 and SrBi2Ta2O9 films. Applied Physics Letters, 2003, 82, 4711-4713.	3.3	46
25	Defect generation by preferred nucleation in epitaxial Sr2RuO4/LaAlO3. Applied Physics Letters, 2003, 83, 3891-3893.	3.3	20
26	Growth of (103) fiber-textured SrBi2Nb2O9 films on Pt-coated silicon. Applied Physics Letters, 2002, 80, 2371-2373.	3.3	41
27	Ferroelectric Domain Structure ofSrBi2Nb2O9Epitaxial Thin Films. Physical Review Letters, 2002, 88, 107601.	7.8	48
28	Microstructure and electrical properties of epitaxial SrBi2Nb2O9 And SrBi2Ta2O9 films. Integrated Ferroelectrics, 2001, 33, 27-37.	0.7	4
29	Transmission electron microscopy study of (103)-oriented epitaxial SrBi₂Nb₂O₉ films grown on (111) SrTiO₃ and (111) SrRuO₃/(111) SrTiO₃. Journal of Materials Research, 2001, 16, 489-502.	2.6	14
30	Comment on â€œHigh-resolution electron microscopy investigations on stacking faults in SrBi2Ta2O9 ferroelectric thin filmsâ€•[Appl. Phys. Lett. 78, 973 (2001)]. Applied Physics Letters, 2001, 79, 887-888.	3.3	5
31	Suppression of superconductivity by crystallographic defects in epitaxial Sr2RuO4 films. Applied Physics Letters, 2001, 78, 2351-2353.	3.3	43
32	Epitaxial growth of SrBi2Nb2O9 on (110) SrTiO3 and the establishment of a lower bound on the spontaneous polarization of SrBi2Nb2O9. Applied Physics Letters, 2000, 77, 3090-3092.	3.3	32
33	Epitaxial growth of non-c-oriented SrBi2Nb2O9 on (111) SrTiO3. Applied Physics Letters, 2000, 76, 2937-2939.	3.3	67
34	Epitaxial growth of metastable Ba2RuO4 films with the K2NiF4 structure. Applied Physics Letters, 1999, 74, 3830-3832.	3.3	15
35	Strength and Microstructure of Brazed Aluminaâ€Silicon Carbide Ceramicâ€Matrix Composites. Journal of the American Ceramic Society, 1999, 82, 705-710.	3.8	4