Bo-Kuai Lai

List of Publications by Year
in descending order

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29 papers	1,273 citations	361413 20 h-index	526287 27 g-index
30 all docs	30 docs citations	30 times ranked	1195 citing authors

#	Article	IF	Citations
1	Dielectric behavior related to TiOx phase change to TiO2 in TiOx/Al2O3 nanolaminate thin films. MRS Communications, 2014, 4, 67-72.	1.8	4
2	Interface-controlled high dielectric constant Al2O3/TiOx nanolaminates with low loss and low leakage current density for new generation nanodevices. Journal of Applied Physics, 2013, 114, .	2.5	25
3	Tailoring dielectric relaxation in ultra-thin high-dielectric constant nanolaminates for nanoelectronics. Applied Physics Letters, 2013, 102, .	3.3	25
4	Nanoscale Compositionally Graded Thinâ€Film Electrolyte Membranes for Lowâ€Temperature Solid Oxide Fuel Cells. Advanced Energy Materials, 2012, 2, 656-661.	19.5	66
5	Nanoscale Compositionally Graded Thin-Film Electrolyte Membranes for Low-Temperature Solid Oxide Fuel Cells (Adv. Energy Mater. 6/2012). Advanced Energy Materials, 2012, 2, 655-655.	19.5	3
6	Free standing oxide alloy electrolytes for low temperature thin film solid oxide fuel cells. Journal of Power Sources, 2012, 202, 120-125.	7.8	29
7	Low temperature thin film solid oxide fuel cells with nanoporous ruthenium anodes for direct methane operation. Energy and Environmental Science, 2011, 4, 3473.	30.8	71
8	Scalable nanostructured membranes for solid-oxide fuel cells. Nature Nanotechnology, 2011, 6, 282-286.	31.5	188
9	Nanostructured La0.6Sr0.4Co0.8Fe0.2O3/Y0.08Zr0.92O1.96/La0.6Sr0.4Co0.8Fe0.2O3 (LSCF/YSZ/LSCF) symmetric thin film solid oxide fuel cells. Journal of Power Sources, 2011, 196, 1826-1832.	7.8	63
10	Pt/Y0.16Zr0.84O1.92/Pt thin film solid oxide fuel cells: Electrode microstructure and stability considerations. Journal of Power Sources, 2011, 196, 2608-2614.	7.8	118
11	Thin film nanocrystalline Ba0.5Sr0.5Co0.8Fe0.2O3: Synthesis, conductivity, and micro-solid oxide fuel cells. Journal of Power Sources, 2011, 196, 6214-6218.	7.8	16
12	Methane-fueled thin film micro-solid oxide fuel cells with nanoporous palladium anodes. Journal of Power Sources, 2011, 196, 6299-6304.	7.8	29
13	Fabrication and electrochemical performance of thin-film solid oxide fuel cells with large area nanostructured membranes. Journal of Power Sources, 2010, 195, 1149-1155.	7.8	30
14	Photon-assisted synthesis of ultra-thin yttria-doped zirconia membranes: Structure, variable temperature conductivity and micro-fuel cell devices. Journal of Power Sources, 2010, 195, 994-1000.	7.8	11
15	Photo-excitation enhanced high temperature conductivity and crystallization kinetics in ultra-thin La0.6Sr0.4Co0.8Fe0.2O3â˜Î´ films. Journal of Power Sources, 2010, 195, 3145-3148.	7.8	1
16	On the role of ultra-thin oxide cathode synthesis on the functionality of micro-solid oxide fuel cells: Structure, stress engineering and in situ observation of fuel cell membranes during operation. Journal of Power Sources, 2010, 195, 5185-5196.	7.8	38
17	Toward wafer-scale fabrication and 3D integration of micro-solid oxide fuel cells for portable energy. , 2010, , .		1
18	Microstructure and Microfabrication Considerations for Selfâ€Supported Onâ€Chip Ultraâ€Thin Microâ€Solid Oxide Fuel Cell Membranes. Fuel Cells, 2009, 9, 699-710.	2.4	23

#	Article	IF	Citations
19	Ultra-thin nanocrystalline lanthanum strontium cobalt ferrite (La0.6Sr0.4Co0.8Fe0.2O3â^Î´) films synthesis by RF-sputtering and temperature-dependent conductivity studies. Journal of Power Sources, 2009, 186, 115-122.	7.8	52
20	An experimental investigation into micro-fabricated solid oxide fuel cells with ultra-thin La0.6Sr0.4Co0.8Fe0.2O3 cathodes and yttria-doped zirconia electrolyte films. Journal of Power Sources, 2009, 186, 252-260.	7.8	77
21	Low-temperature electrochemical characterization of dense ultra-thin lanthanum strontium cobalt ferrite (La0.6Sr0.4Co0.8Fe0.2O3) cathodes synthesized by RF-sputtering on nanoporous alumina-supported Y-doped zirconia membranes. Journal of Power Sources, 2009, 193, 589-592.	7.8	38
22	Thickness dependency of 180Â° stripe domains in ferroelectric ultrathin films: A first-principles-based study. Applied Physics Letters, 2007, 91, .	3.3	45
23	Domain evolution ofBaTiO3ultrathin films under an electric field: A first-principles study. Physical Review B, 2007, 75, .	3.2	39
24	Electric-Field-Induced Domain Evolution in Ferroelectric Ultrathin Films. Physical Review Letters, 2006, 96, 137602.	7.8	107
25	Phase diagrams of epitaxial BaTiO3 ultrathin films from first principles. Applied Physics Letters, 2005, 86, 132904.	3.3	88
26	First Principles Study of Size Effect in BaTiO3 Ultrathin Films. Materials Research Society Symposia Proceedings, 2005, 881, 1.	0.1	0
27	Quantitative phase transformation behavior in TiNi shape memory alloy thin films. Journal of Materials Research, 2004, 19, 2822-2833.	2.6	12
28	A Comparison of PZT-Based and TiNi Shape Memory Alloy-Based MEMS Microactuators. Ferroelectrics, 2004, 306, 221-226.	0.6	9
29	A robust co-sputtering fabrication procedure for TiNi shape memory alloys for MEMS. Journal of Microelectromechanical Systems, 2001, 10, 69-79.	2.5	65