Richard Pinto

List of Publications by Year
in descending order

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80 papers	2,704 citations	201575 27 h-index	189801 50 g-index
80 all docs	80 docs citations	80 times ranked	2696 citing authors

#	Article	IF	Citations
1	Optical and photoluminescence studies of precursor stabilised Aluminium-Gallium Zinc oxide thin films. Materials Today: Proceedings, 2022, , .	0.9	0
2	Chemical etching of glasses in hydrofluoric Acid: A brief review. Materials Today: Proceedings, 2022, 55, 46-51.	0.9	14
3	Simulation and analysis of P(VDF-TrFE) cantilever-beams for low frequency applications. Materials Today: Proceedings, 2021, 35, 392-395.	0.9	3
4	Optimum hydrogen flowrates and membrane-electrode clamping pressure in hydrogen fuel cells with dual-serpentine flow channels. Materials Today: Proceedings, 2021, 35, 412-416.	0.9	9
5	Methanol crossover reduction and power enhancement of methanol fuel cells with polyvinyl alcohol coated Nafion membranes. Materials Today: Proceedings, 2021, 35, 344-351.	0.9	11
6	Role of UV irradiated Nafion in power enhancement of hydrogen fuel cells. International Journal of Hydrogen Energy, 2021, 46, 25596-25607.	3.8	8
7	Role of UV irradiation of Nafion membranes on ionic groups responsible for proton conduction and mechanical strength: A FTIR spectroscopic analysis. Materials Today Communications, 2020, 25, 101471.	0.9	5
8	Investigation on the sulfurization temperature dependent phase and defect formation of sequentially evaporated Cu-rich CZTS thin films. Solar Energy, 2020, 201, 348-361.	2.9	27
9	Pore size tuning of Nafion membranes by UV irradiation for enhanced proton conductivity for fuel cell applications. International Journal of Hydrogen Energy, 2019, 44, 23762-23774.	3.8	34
10	Power enhancement of passive micro-direct methanol fuel cells with self-sulfonation of P(VDF-TrFE) copolymer during lamination on Nafion membrane. International Journal of Hydrogen Energy, 2019, 44, 30375-30387.	3.8	12
11	Piezoelectric P(VDF-TrFE) micro cantilevers and beams for low frequency vibration sensors and energy harvesters. Sensors and Actuators A: Physical, 2019, 295, 574-585.	2.0	14
12	Low frequency piezoelectric P(VDF-TrFE) micro-cantilevers with a novel MEMS process for vibration sensor and energy harvester applications. Smart Materials and Structures, 2019, 28, 065022.	1.8	8
13	Enhancement of power output in passive micro-direct methanol fuel cells with optimized methanol concentration and trapezoidal flow channels. Journal of Micromechanics and Microengineering, 2019, 29, 075006.	1.5	16
14	Sensing at terahertz frequency domain using a sapphire whispering gallery mode resonator. Optics Letters, 2018, 43, 5383.	1.7	12
15	Î³ Irradiation effects on optical, thermal, and mechanical properties of polysulfone/MWCNT nanocomposites in argon atmosphere. Journal of Applied Polymer Science, 2015, 132, .	1.3	11
16	POCl<inf>3</inf> diffusion process optimization for the formation of emitters in the crystalline silicon solar cells. , 2014, , .		4
17	Optimization of a plasma immersion ion implantation process for shallow junctions in silicon. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2014, 32, .	0.9	4
18	Enhanced flux pinning in pulsed laser deposited Y Ba2Cu3O7â˜Î´ : BaTiO3 nanocomposite thin films. Solid State Communications, 2011, 151, 1447-1451.	0.9	16

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19	Growth conditions of CuAlO2 films â€" Thermodynamic considerations. Thin Solid Films, 2011, 520, 1299-1302.	0.8	11
20	Fabrication and characterization of a novel magnetoelectric multiferroic MEMS cantilevers on Si. Sensors and Actuators A: Physical, 2011, 166, 83-87.	2.0	22
21	Interface engineering using ferromagnetic nanoparticles for enhancing pinning in YBa2Cu3O7â^'Î´ thin film. Journal of Applied Physics, 2011, 110, .	1.1	13
22	Multiferroic properties of Dy modified BiFeO3 thin films in comparison with Tb modified BiFeO3 thin films. Journal of Materials Research, 2007, 22, 2068-2073.	1.2	11
23	PLD growth of CuAlO2. Thin Solid Films, 2007, 515, 8641-8644.	0.8	41
24	Silanization and antibody immobilization on SU-8. Applied Surface Science, 2007, 253, 3127-3132.	3.1	74
25	Effect of disorder on the exponent in the coherence region in high temperature superconductors. Physica C: Superconductivity and Its Applications, 2006, 443, 61-68.	0.6	28
26	Internal stress in Cat-CVD microcrystalline Si:H thin films. Thin Solid Films, 2006, 501, 117-120.	0.8	6
27	Structure and morphology of laser-ablated WO3 thin films. Applied Physics A: Materials Science and Processing, 2005, 81, 1291-1297.	1.1	27
28	Columnar tilt and vortex stress in superconducting thin films of NdBa2Cu3O7â^'Î´: Magnetization critical current-density measurements. Journal of Applied Physics, 2004, 96, 7403-7406.	1.1	14
29	Structural, magnetic and magnetotransport properties of the La0.67Ca0.33Mn0.9Fe0.1O3 perovskite. Journal of Magnetism and Magnetic Materials, 2003, 264, 62-69.	1.0	40
30	Microstructural features of pulsed-laser deposited V2O5 thin films. Applied Surface Science, 2003, 207, 135-138.	3.1	38
31	Temperature dependence of magnetoresistance and nonlinear conductance of the bicrystal grain boundary in epitaxial La0.67Ba0.33MnO3 thin films. Applied Physics Letters, 2002, 81, 325-327.	1.5	45
32	Magnetotransport properties of a room temperature rectifying tunnel junction made of electron and hole doped manganites. Journal of Applied Physics, 2002, 91, 7715.	1.1	19
33	Observation of saturated polarization and dielectric anomaly in magnetoelectric BiFeO3 thin films. Applied Physics Letters, 2002, 80, 1628-1630.	1.5	404
34	Growth and characteristics of reactive pulsed laser deposited molybdenum trioxide thin films. Applied Physics A: Materials Science and Processing, 2002, 75, 417-422.	1.1	46
35	Fabrication and superconducting properties of ternary REBa2Cu3Oy thin films. Physica C: Superconductivity and Its Applications, 2002, 366, 123-128.	0.6	4
36	Characterization of laser-ablated V2O5 thin films. Journal of Materials Science: Materials in Electronics, 2002, 13, 425-432.	1.1	20

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37	Growth of epitaxial and polycrystalline thin films of the electron doped system La1â^'xCexMnO3 through pulsed laser deposition. Journal of Applied Physics, 2001, 89, 524-530.	1.1	109
38	Enhanced room-temperature magnetoresistance in La0.7Sr0.3MnO3-glass composites. Applied Physics Letters, 2001, 78, 362-364.	1.5	139
39	Sensitivity of R/sub s/-measurement of HTS thin films by three prime resonant techniques: cavity resonator, dielectric resonator, and microstrip resonator. IEEE Transactions on Applied Superconductivity, 2001, 11, 4128-4135.	1.1	7
40	Synthesis of nanocrystalline material by sputtering and laser ablation at low temperatures. Applied Physics A: Materials Science and Processing, 2001, 73, 67-73.	1.1	109
41	Low-temperature growth of vanadium pentoxide thin films produced by pulsed laser ablation. Journal Physics D: Applied Physics, 2001, 34, L35-L38.	1.3	44
42	pâ€“n diode with hole- and electron-doped lanthanum manganites. Applied Physics Letters, 2001, 79, 2408-2410.	1.5	114
43	Enhanced critical current density due to flux pinning from lattice defects in pulsed laser ablated Y1-xDyxBa2Cu3O7-Î´thin films. Superconductor Science and Technology, 2000, 13, 935-939.	1.8	50
44	Si induced size effects in ferroelectric PbTiO3. Journal of Applied Physics, 2000, 87, 462-466.	1.1	12
45	Breakthrough in densification of ferroelectric PbTiO3 with Si as sintering aid. Materials Letters, 2000, 43, 329-334.	1.3	17
46	Ferroelectric thin films of PbTiO3on silicon. Journal Physics D: Applied Physics, 1999, 32, R1-R18.	1.3	41
47	Spin-polarized tunneling in the half-metallic ferromagnetsLa0.7â^'xHoxSr0.3MnO3(x=0and) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T	1.1	117
48	Novel ceramic substrates for high Tc superconductors. Bulletin of Materials Science, 1999, 22, 243-249.	0.8	11
49	Evolution of transport and magnetic properties with dysprosium doping in La0.7â^'xDyxSr0.3MnO3 (x=0â€“0.4). Journal of Magnetism and Magnetic Materials, 1999, 192, 130-136.	1.0	26
50	Transport and magnetic properties of laser ablated La0.7Ce0.3MnO3 films on LaAlO3. Journal of Applied Physics, 1999, 86, 5718-5725.	1.1	81
51	A study of the CuO phase formation during thin film deposition by molecular beam epitaxy. Thin Solid Films, 1998, 324, 37-43.	0.8	80
52	Study of columnar amorphization and structural symmetry changes produced by swift heavy ion irradiation in YBa2Cu3O7â^'y thin films using STM. Solid State Communications, 1998, 106, 805-810.	0.9	31
53	Growth of YBCOâ€“Ag thin films (Tc(0)=90 K) by pulsed laser ablation on polycrystalline Ba2EuNbO6; A new perovskite ceramic substrate for YBCO films. Materials Letters, 1998, 34, 208-212.	1.3	4
54	The metal - insulator transition and ferromagnetism in the electron-doped layered manganites (x= 0,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	0.7	30

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55	Ferroelectric behavior in thin films of antiferroelectric materials. Physical Review B, 1998, 57, R5559-R5562.	1.1	79
56	A phenomenological model for magnetoresistance in granular polycrystalline colossal magnetoresistive materials: The role of spin polarized tunneling at the grain boundaries. Journal of Applied Physics, 1998, 84, 2048-2052.	1.1	99
57	c-axis oriented ferroelectric thin films of Si-substituted PbTiO3 on Si(100) by pulsed laser deposition: Boost for nonvolatile memory application. Applied Physics Letters, 1998, 72, 1179-1181.	1.5	9
58	Dielectric properties of oriented thin films of PbZrO3 on Si produced by pulsed laser ablation. Journal of Applied Physics, 1998, 83, 7808-7812.	1.1	35
59	Synthesis of thin films of polycrystalline ferroelectric BiNbO₄ on Si by pulsed laser ablation. Journal of Materials Research, 1998, 13, 1113-1116.	1.2	10
60	Superconducting YBa 2Cu 3O 7-Î´-Ag Thin Films (TC(0) = 90 K) by Pulsed Laser Deposition on Polycrystalline Ba 2NdNbO 6; A Novel Substrate for YBa 2Cu 3O 7-Î´ Films. Japanese Journal of Applied Physics, 1998, 37, L1144-L1147.	0.8	3
61	Effect of low Fe doping in La0.8Sr0.2MnO3. Journal of Applied Physics, 1998, 83, 7169-7170.	1.1	14
62	Enhanced Jc and improved grain-boundary properties in Ag-doped YBa2Cu3O7â^Î´ films. Applied Physics Letters, 1997, 71, 137-139.	1.5	20
63	The effect of holmium doping on the magnetic and transport properties of. Journal of Physics Condensed Matter, 1997, 9, 10919-10927.	0.7	20
64	YBa 2 Cu 3 O 7 â^' Î´ films with high critical current density on epitaxial films of Ba 2 LaNbO 6 , a new perovskite substrate for YBa 2 CuO 7 â^' Î´ superconductor. Europhysics Letters, 1997, 39, 669-674.	0.7	6
65	Giant magnetoresistance studies on La(0.8â^'x)RxSr0.2MnO3 thin films (R î—» Pr, Nd, Gd, Ho). Journal of Magnetism and Magnetic Materials, 1997, 166, 65-70.	1.0	17
66	Role of silver doping in oxygen incorporation of oxide thin film. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 1997, 45, 55-58.	1.7	12
67	High quality zinc oxide films by pulsed laser ablation. Thin Solid Films, 1997, 295, 104-106.	0.8	82
68	Growth of YBa2Cu3O7â^Î´â€“Ag thin films (Tc(0)=89 K) by pulsed laser ablation on polycrystalline Ba2LaNbO6: A new perovskite ceramic substrate. Applied Physics Letters, 1996, 69, 2909-2911.	1.5	9
69	Microstructural study of yttria stabilized zirconia buffered sapphire for YBa2Cu3O7â^Î´ thin films. Journal of Applied Physics, 1996, 79, 940.	1.1	20
70	Superconductivity and transport behavior of laser ablated Auâ€doped YBa2Cu3O7â^Î´ thin films. Applied Physics Letters, 1996, 68, 1006-1008.	1.5	14
71	Microstructural dependence of penetration depth of Agâ€doped YBa2Cu3O7â^Î´ thin films probed by atomic force microscopy. Applied Physics Letters, 1996, 68, 1720-1722.	1.5	11
72	câ€axis oriented ferroelectric thin films of PbTiO3 on Si by pulsed laser ablation. Applied Physics Letters, 1996, 68, 1582-1584.	1.5	30

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73	Pulsed laser ablation: A new route to synthesize novel superconducting compounds as oriented films. Journal of Applied Physics, 1996, 79, 1082.	1.1	16
74	On the role of Ag in enhancement of Jc in YBa2Cu3O7âˆ’Î´ thin films. Physica C: Superconductivity and Its Applications, 1995, 248, 276-280.	0.6	16
75	Surface resistance and residual losses of Agâ€doped YBa2Cu3O7âˆ’Î´thin films on sapphire. Journal of Applied Physics, 1995, 77, 4116-4118.	1.1	12
76	Twoâ€dimensional growth model for laserâ€ablated Agâ€doped YBa2Cu3O7âˆ’xthin films. Journal of Applied Physics, 1995, 77, 5802-5808.	1.1	20
77	Surface resistance, residual losses, and granularity in Agâ€doped YBa2Cu3O7âˆ’Î´thin films. Journal of Applied Physics, 1994, 75, 4258-4260.	1.1	9
78	Silver doping and its influence on the oxygenation duringinsitugrowth of YBa2Cu3O7âˆ’xthin films. Journal of Applied Physics, 1994, 76, 1349-1351.	1.1	24
79	Microstructure, flux pinning and critical current density in YBa2Cu3O7âˆ’Î´ films grown by laser ablation. Thin Solid Films, 1994, 245, 186-190.	0.8	10
80	Superconductivity and valence state of Tb in Lu1âˆ’xTbxBa2Cu3O7âˆ’Î´(0â‰¤xâ‰¤0.7). Applied Physics Letters, 1994, 65, 1296-1298.	1.5	14