Manuel Varela

List of Publications by Year
in descending order

125 papers	2,960 citations	147801 31 h-index	197818 49 g-index
125 all docs	125 docs citations	125 times ranked	3307 citing authors

#	Article	IF	Citations
1	Growth of epitaxial Pt thin films on (001) SrTiO3 by rf magnetron sputtering. Applied Surface Science, 2014, 306, 23-26.	6.1	7
2	Mapping of the epitaxial stabilization of quasi-tetragonal BiFeO3 with deposition temperature. Applied Physics Letters, 2012, 100, .	3.3	13
3	Ferroelectric phase transition in strained multiferroic (Bi0.9La0.1)2NiMnO6 thin films. Applied Physics Letters, 2012, 100, .	3.3	12
4	Dielectric properties of (Bi<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML") Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 647	3.2	24
5	xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml: Magnetoimpedance spectroscopy of epitaxial multiferroic thin films. Physical Review B, 2012, 86, .	3.2	80
6	A phase transition close to room temperature in BiFeO₃thin films. Journal of Physics Condensed Matter, 2011, 23, 342202.	1.8	49
7	Nonferroelectric contributions to the hysteresis cycles in manganite thin films: A comparative study of measurement techniques. Journal of Applied Physics, 2011, 109, .	2.5	100
8	An Investigation on Solid State Reactions in Heat Treated Au/Pd Thin Films for Electrodes Applications. Journal of Nanoscience and Nanotechnology, 2010, 10, 2635-2640.	0.9	5
9	Structural and dielectric properties of (001) and (111)-oriented BaZr0.2Ti0.8O3 epitaxial thin films. Thin Solid Films, 2010, 518, 4692-4695.	1.8	10
10	Synthesis and characterization of platinum thin film as top electrodes for multifunctional layer devices by PLD. Thin Solid Films, 2010, 518, 4705-4709.	1.8	6
11	Material properties of Auâ€“Pd thin alloy films. Thin Solid Films, 2010, 518, 5715-5719.	1.8	12
12	Novel Fabrication of Caâ€Doped LaNbO₄ Thinâ€Film Protonâ€Conducting Fuel Cells by Pulsed Laser Deposition. Journal of the American Ceramic Society, 2010, 93, 1874-1878.	3.8	10
13	Emergence of ferromagnetism in antiferromagnetic TbMnO3 by epitaxial strain. Applied Physics Letters, 2010, 96, .	3.3	53
14	Epitaxial stabilization of Îµ-Fe2O3 (00l) thin films on SrTiO3 (111). Applied Physics Letters, 2010, 96, .	3.3	79
15	Response to â€œComment on â€˜On the strain coupling across vertical interfaces of switchable BiFeO3â€“CoFe2O4 multiferroic nanostructuresâ€™â€‰â€•[Appl. Phys. Lett. 96, 076101 (2010)]. Applied Physics Letters, 2010, 96, 076102.	3.3	2
16	Long-range order of Ni2+ and Mn4+ and ferromagnetism in multiferroic (Bi0.9La0.1)2NiMnO6 thin films. Journal of Applied Physics, 2010, 108, 123907.	2.5	15
17	Strain-driven noncollinear magnetic ordering in orthorhombic epitaxial YMnO3 thin films. Journal of Applied Physics, 2010, 108, .	2.5	25
18	Selectable Spontaneous Polarization Direction and Magnetic Anisotropy in BiFeO₃â^'CoFe₂O₄ Epitaxial Nanostructures. ACS Nano, 2010, 4, 4955-4961.	14.6	86

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19	Strain tuned magnetoelectric coupling in orthorhombic YMnO3 thin films. Applied Physics Letters, 2009, 95, .	3.3	26
20	On the strain coupling across vertical interfaces of switchable BiFeO3â€“CoFe2O4 multiferroic nanostructures. Applied Physics Letters, 2009, 95, .	3.3	48
21	Controlling exchange bias in Coâ€“CoO_xnanoparticles by oxygen content. Nanotechnology, 2009, 20, 175702.	2.6	46
22	Electrical conductivity dependence of thin metallic films of Au and Pd as a top electrode in capacitor applications. Applied Surface Science, 2009, 255, 3618-3622.	6.1	7
23	Nanoporous films obtained by sacrificial layer pulsed laser deposition. Thin Solid Films, 2009, 518, 383-386.	1.8	2
24	Epitaxial thin films of (Bi0.9La0.1)2NiMnO6 obtained by pulsed laser deposition. Journal of Magnetism and Magnetic Materials, 2009, 321, 1748-1753.	2.3	18
25	Influence of substrate temperature in BiFeO3â€“CoFe2O4 nanocomposites deposited on SrTiO3 (001). Journal of Magnetism and Magnetic Materials, 2009, 321, 1790-1794.	2.3	14
26	Ferromagnetism in epitaxial orthorhombic YMnO3 thin films. Journal of Magnetism and Magnetic Materials, 2009, 321, 1719-1722.	2.3	38
27	Critical Limitations in the Fabrication of Biferroic BiFeO₃â^'CoFe₂O₄ Columnar Nanocomposites Due to Bismuth Loss. Chemistry of Materials, 2009, 21, 1375-1380.	6.7	29
28	Crystal texture selection in epitaxies of orthorhombic antiferromagnetic YMnO3 films. Thin Solid Films, 2008, 516, 4899-4907.	1.8	31
29	Synthesis, structure, and magnetic studies on self-assembled BiFeO3â€“CoFe2O4 nanocomposite thin films. Journal of Applied Physics, 2008, 103, 07E301.	2.5	41
30	Metallic Nanoparticles Embedded in a Dielectric Matrix: Growth Mechanisms and Percolation. Journal of Nanomaterials, 2008, 2008, 1-5.	2.7	8
31	Effect of disorder on the temperature dependence of the resistivity ofSrRuO3. Physical Review B, 2008, 77, .	3.2	24
32	Dielectric anomaly and magnetic response of epitaxial orthorhombic YMnO₃ thin films. Journal of Materials Research, 2007, 22, 2096-2101.	2.6	25
33	Electric field effects on magnetotransport properties of multiferroic Py/YMnO3/Pt heterostructures. Philosophical Magazine Letters, 2007, 87, 183-191.	1.2	7
34	Thin films in ternary Biâ€“Mnâ€“O system obtained by pulsed laser deposition. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2007, 144, 138-142.	3.5	12
35	Epitaxial growth of biferroic YMnO3(0001) on platinum electrodes. Journal of Crystal Growth, 2007, 299, 288-294.	1.5	16
36	Magnetic properties of Co nanoparticles in zirconia matrix. Journal of Magnetism and Magnetic Materials, 2007, 316, 103-105.	2.3	9

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37	Growth and magnetic properties of multiferroicLaxBi1âˆ’xMnO3thin films. Physical Review B, 2007, 75, .	3.2	31
38	Particle growth mechanisms in Agâ€“ZrO2and Auâ€“ZrO2granular films obtained by pulsed laser deposition. Nanotechnology, 2006, 17, 4106-4111.	2.6	20
39	Electric-Field Control of Exchange Bias in Multiferroic Epitaxial Heterostructures. Physical Review Letters, 2006, 97, 227201.	7.8	295
40	Growth modes and self-organization in the epitaxy of ferromagnetic SrRuO3 on SrTiO3(001). Progress in Solid State Chemistry, 2006, 34, 213-221.	7.2	5
41	Exchange bias between magnetoelectric YMnO3 and ferromagnetic SrRuO3 epitaxial films. Journal of Applied Physics, 2006, 99, 08P302.	2.5	43
42	Giant step bunching in epitaxial SrRuO3 films on vicinal SrTiO3(001). Thin Solid Films, 2006, 495, 159-164.	1.8	3
43	La2âˆ•3Sr1âˆ•3MnO3â€“La0.1Bi0.9MnO3 heterostructures for spin filtering. Journal of Applied Physics, 2006, 99, 08E504.	2.5	35
44	Controlled magnetic anisotropy of SrRuO3 thin films grown on nominally exact SrTiO3(001) substrates. Applied Physics Letters, 2006, 89, 152501.	3.3	11
45	Tunneling magnetoresistance inCoâˆ’ZrO2granular thin films. Physical Review B, 2006, 73, .	3.2	57
46	Giant step bunching from self-organized coalescence ofSrRuO3islands. Physical Review B, 2006, 73, .	3.2	13
47	Exchange biasing and electric polarization with YMnO3. Applied Physics Letters, 2006, 89, 032510.	3.3	37
48	Magnetoresistance of SrRuO3 ultra-thin films. Journal of Magnetism and Magnetic Materials, 2005, 290-291, 1123-1126.	2.3	0
49	Kerr measurements on single-domain SrRuO3 thin films. Journal of Applied Physics, 2005, 97, 10M321.	2.5	7
50	Self-organization in complex oxide thin films: from 2D to 0D nanostructures of SrRuO3and CoCr2O4. Nanotechnology, 2005, 16, S190-S196.	2.6	29
51	Domain structure of epitaxialSrRuO3thin films. Physical Review B, 2005, 71, .	3.2	39
52	Perovskite-based heterostructures integrating ferromagnetic-insulating La0.1Bi0.9MnO3. Journal of Applied Physics, 2005, 97, 103909.	2.5	12
53	Magnetic field effect on quantum corrections to the low-temperature conductivity in metallic perovskite oxides. Physical Review B, 2005, 72, .	3.2	44
54	Spin filtering through ferromagneticBiMnO3tunnel barriers. Physical Review B, 2005, 72, .	3.2	187

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55	Critical effects of substrate terraces and steps morphology on the growth mode of epitaxial SrRuO3 films. Applied Physics Letters, 2004, 85, 1981-1983.	3.3	37
56	Self-interference of charge carriers in ferromagnetic SrRuO3. Journal of Applied Physics, 2004, 95, 7213-7215.	2.5	2
57	Weak localization effects in some metallic perovskites. European Physical Journal B, 2004, 40, 439-444.	1.5	47
58	Anisotropic magnetoresistance in SrRuO3 ferromagnetic oxide. Journal of Magnetism and Magnetic Materials, 2004, 272-276, 517-518.	2.3	16
59	Relevance of the 3D to 2D growth mode transition for the transport properties of nanometric SrRuO3 films. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2004, 109, 221-225.	3.5	4
60	Competing tunneling and capacitive paths inCoâˆ'ZrO2granular thin films. Physical Review B, 2003, 67, .	3.2	23
61	Enhanced electron-electron correlations in nanometricSrRuO3epitaxial films. Physical Review B, 2003, 67, .	3.2	85
62	SrRuO3/SrTiO3/SrRuO3 heterostructures for magnetic tunnel junctions. Journal of Applied Physics, 2003, 93, 8035-8037.	2.5	21
63	Impact of microstructure on transport properties of nanometric epitaxial SrRuO3 films. Applied Physics Letters, 2003, 82, 85-87.	3.3	35
64	Transition from three- to two-dimensional growth in strained SrRuO3 films on SrTiO3(001). Applied Physics Letters, 2003, 83, 902-904.	3.3	36
65	Reduced microwave losses of YBa2Cu3O7âˆ'Î´ thin films on electro-optic LiNbO3 crystals. Journal of Applied Physics, 2002, 92, 6346-6348.	2.5	2
66	Epitaxial growth of yttria-stabilised zirconia buffer layers on X-cut LiNbO3 for superconducting electrodes. Applied Physics A: Materials Science and Processing, 2002, 75, 381-385.	2.3	3
67	High-quality YBa2Cu3O7/insulator/LaNiO3 trilayers obtained by pulsed laser deposition. Vacuum, 2002, 64, 337-341.	3.5	7
68	Excimer laser patterning of epitaxial YSZ films grown on silicon. Vacuum, 2002, 65, 115-118.	3.5	4
69	Pulsed laser deposition of epitaxial buffer layers on LiNbO3. Applied Surface Science, 2002, 186, 397-402.	6.1	3
70	Pulsed laser deposition of epitaxial LaNiO3 thin films on buffered Si(100). Thin Solid Films, 2001, 384, 200-205.	1.8	39
71	Growth and characterization of epitaxial ferroelectric PbZrxTi1âˆ'xO3 thin film capacitors with SrRuO3 electrodes for non-volatile memory applications. Solid-State Electronics, 2001, 45, 1433-1440.	1.4	39
72	Magneto-optical Kerr effect in laser-patterned La2/3Sr1/3MnO3 epitaxial thin films. Journal of Applied Physics, 2001, 89, 6958-6960.	2.5	2

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73	X-ray diffraction study of lattice engineered manganite magnetoresistive films. Journal of Crystal Growth, 2000, 209, 842-849.	1.5	5
74	Epitaxial ferroelectric PbZrxTi1â€“xO3 thin films for non-volatile memory applications. Microelectronics Reliability, 2000, 40, 671-674.	1.7	8
75	Room-temperature magnetoresistive sensor based on thick films manganese perovskite. Sensors and Actuators A: Physical, 2000, 81, 64-66.	4.1	7
76	Pulsed laser deposition of epitaxial PbZrxTi1â^'xO3 ferroelectric capacitors with LaNiO3 and SrRuO3 electrodes. Applied Surface Science, 2000, 168, 219-222.	6.1	21
77	Excimer laser irradiation of SrRuO3 epitaxial thin films. Applied Surface Science, 2000, 154-155, 622-626.	6.1	1
78	Epitaxial SrRuO3 thin films on LaAlO3(100) and Si(100). Applied Surface Science, 2000, 154-155, 159-164.	6.1	19
79	Pulsed laser deposition of epitaxial ferroelectric PbZrxTi1â^'xO3/SrTiO3 and PbZrxTi1â^'xO3/SrRuO3 bilayers. Applied Surface Science, 2000, 154-155, 500-507.	6.1	6
80	Superconductivity and magnetoresistance in YBa2Cu3O7/SrTiO3/La2/3Sr1/3MnO3 heterostructures. Journal of Magnetism and Magnetic Materials, 2000, 211, 180-185.	2.3	7
81	Anisotropic magnetoresistance of (00h), (0hh) and (hhh) La2/3Sr1/3MnO3 thin films on (001) Si substrates. Journal of Magnetism and Magnetic Materials, 2000, 211, 206-211.	2.3	26
82	Magnetoresistance at artificial interfaces in epitaxial ferromagnetic thin films. Journal of Magnetism and Magnetic Materials, 2000, 211, 217-225.	2.3	15
83	Magnetoresistance at artificial interfaces in the itinerantSrRuO3ferromagnet. Physical Review B, 1999, 60, 9579-9582.	3.2	10
84	Epitaxial growth of magnetoresistive (00h), (0hh), and (hhh) La2/3Sr1/3MnO3 thin films on (001)Si substrates. Applied Physics Letters, 1999, 74, 1743-1745.	3.3	22
85	Laser irradiation of SrTiO 3 single crystals. Applied Physics A: Materials Science and Processing, 1999, 69, S501-S504.	2.3	7
86	Influence of laser-ablation plume dynamics on the room-temperature epitaxial growth of CeO 2 on silicon. Applied Physics A: Materials Science and Processing, 1999, 69, S815-S818.	2.3	3
87	Magnetic and transport properties of La2/3Sr1/3MnO3 thin films prepared by pulsed laser deposition. Journal of Magnetism and Magnetic Materials, 1999, 203, 256-258.	2.3	3
88	Tunable epitaxial growth of magnetoresistive La2/3Sr1/3MnO3 thin films. Journal of Applied Physics, 1999, 85, 4800-4802.	2.5	23
89	Study of the epitaxial growth of CeO2(001) on yttria-stabilized zirconia/Si(001). Journal of Crystal Growth, 1998, 192, 175-184.	1.5	26
90	Dynamics of the hydrodynamical growth of columns on silicon exposed to ArF excimer-laser irradiation. Applied Physics A: Materials Science and Processing, 1998, 66, 83-86.	2.3	42

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91	Room-temperature epitaxial growth of CeO 2 (001) films on YSZ buffered Si(001) substrates. Applied Physics A: Materials Science and Processing, 1998, 67, 455-457.	2.3	10
92	Study of material emission in ArF and KrF excimer laser ablation of yttria stabilized zirconia single crystals. Thin Solid Films, 1998, 317, 108-111.	1.8	7
93	Simulation of epitaxial growth of CeO2 on YSZ(100) and SrTiO3 on MgO(100) for YBa2Cu3O7â^'x deposition. Thin Solid Films, 1998, 317, 81-84.	1.8	9
94	Oxygen content and inhomogeneity effects on the electrical properties of YBa2Cu3Oy thin films. Journal of Materials Research, 1997, 12, 47-53.	2.6	1
95	Protective oxide coatings for superconducting YBa2Cu3O7â^'x thin films. Thin Solid Films, 1997, 306, 74-77.	1.8	10
96	Effects of excimer-laser irradiation of LaAlO 3 (100) single crystals: Influence on superconducting YBa 2 Cu 3 O 7-x film growth. Applied Physics A: Materials Science and Processing, 1997, 65, 429-436.	2.3	2
97	Effects of wavelength, deposition rate and thickness on laser ablation deposited YSZ films on Si(100). Thin Solid Films, 1997, 304, 225-228.	1.8	28
98	Single crystal laser patterning for selective YBa 2 Cu 3 O 7â^'x growth. Applied Surface Science, 1996, 96-98, 405-409.	6.1	6
99	Carbon nitride thin films obtained by laser ablation of graphite in a nitrogen plasma. Applied Surface Science, 1996, 96-98, 870-873.	6.1	15
100	ArF and KrF excimer laser deposition of yttriaâ€stabilized zirconia on Si(100). Applied Physics Letters, 1996, 68, 1048-1050.	3.3	39
101	Erbium oxide thin films on Si(100) obtained by laser ablation and electron beam evaporation. Applied Surface Science, 1995, 86, 95-98.	6.1	11
102	Laser wavelength dependence of YBa2Cu3Oy laser ablation plumes. Applied Surface Science, 1995, 86, 59-63.	6.1	4
103	Pulsed laser deposition of diamond from graphite targets. Applied Physics Letters, 1995, 67, 485-487.	3.3	52
104	Characterization of hydroxyapatite laser ablation plumes by fast intensified CCD-imaging. Journal of Materials Research, 1995, 10, 473-478.	2.6	15
105	Evolution of the plumes produced by laser ablation of a carbon target. Diamond and Related Materials, 1995, 4, 337-341.	3.9	8
106	Optical and structural characterization of boron nitride thin films. Diamond and Related Materials, 1995, 4, 657-660.	3.9	11
107	Growth of diamond by laser ablation of graphite. Diamond and Related Materials, 1995, 4, 780-783.	3.9	17
108	YBa2Cu3O7-x thin films on double buffer layers on Si(100). Physica C: Superconductivity and Its Applications, 1994, 235-240, 647-648.	1.2	8

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109	Deposition of Er2O3 thin films on Si(100) by laser ablation. Vacuum, 1994, 45, 1129-1130.	3.5	3
110	Study of the interdiffusion of ceramic thin films deposited on Si(100) by laser ablation. Vacuum, 1994, 45, 1131-1133.	3.5	2
111	Structural and compositional characterization of laser ablated CeO2 thin films. Applied Surface Science, 1993, 70-71, 94-98.	6.1	18
112	Deposition of YBa2Cu3Ox by laser ablation on Si(100) using different buffer layers. Applied Surface Science, 1993, 69, 221-224.	6.1	5
113	Superconducting YBa2Cu3O7 films deposited on Si (100) substrates with CeO2 buffer layers by laser ablation. Physica C: Superconductivity and Its Applications, 1992, 195, 47-50.	1.2	13
114	Superconducting Y-Ba-Cu-O thin films on silicon and Al2O3 substrates. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 1992, 14, 53-56.	3.5	0
115	YBa2Cu3O,7 â^' x superconducting thin films by sequential evaporation on alumina substrates. Journal of the Less Common Metals, 1990, 164-165, 430-437.	0.8	3
116	Electrical transport properties of polycrystalline CuInSe2 films. Solar Energy Materials and Solar Cells, 1988, 17, 347-355.	0.4	3
117	Optical properties of indium doped CdS thin films. Solar Energy Materials and Solar Cells, 1988, 17, 55-64.	0.4	32
118	Rheotaxial growth of CuInSe2 thin films. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1987, 5, 169-173.	2.1	3
119	Crystalline properties of In-Doped CdS thin films. Journal of Crystal Growth, 1987, 84, 483-488.	1.5	2
120	Optical properties of co-evaporated CuInSe2thin films. Journal Physics D: Applied Physics, 1986, 19, 127-136.	2.8	37
121	Indium thin films on metal-coated substrates. Thin Solid Films, 1985, 129, 103-109.	1.8	8
122	Crystalline properties of co-evaporated CuInSe2 thin films. Thin Solid Films, 1985, 130, 155-164.	1.8	22
123	Deposition of Zn3P2 thin films by coevaporation. Solar Energy Materials and Solar Cells, 1985, 12, 51-56.	0.4	23
124	Electrical conductivity of polycrystalline CuInSe2thin films. Journal Physics D: Applied Physics, 1984, 17, 2423-2427.	2.8	17
125	Rheotaxial growth on indium thin films. Thin Solid Films, 1984, 113, L21-L23.	1.8	3