

Enrique Vasco

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62
papers

1,039
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18
h-index

30
g-index

64
ext. papers

1,089
ext. citations

4
avg, IF

3.91
L-index

#	Paper	IF	Citations
62	Growth of single-crystalline KNbO ₃ nanostructures. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 58-61	3.4	140
61	Ionic conduction in zirconia films of nanometer thickness. <i>Acta Materialia</i> , 2005 , 53, 5161-5166	8.4	96
60	Low resistivity cubic phase CdS films by chemical bath deposition technique. <i>Applied Physics Letters</i> , 1994 , 65, 1278-1280	3.4	88
59	Growth kinetics of one-dimensional KNbO ₃ nanostructures by hydrothermal processing routes. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 14331-4	3.4	48
58	Growth dynamics and strain relaxation mechanisms in BaTiO ₃ pulsed laser deposited on SrRuO ₃ /SrTiO ₃ . <i>Physical Review B</i> , 2006 , 73,	3.3	47
57	Early self-assembled stages in epitaxial SrRuO ₃ on LaAlO ₃ . <i>Applied Physics Letters</i> , 2003 , 82, 2497-2499	3.4	43
56	Impact of the top-electrode material on the permittivity of single-crystalline Ba _{0.7} Sr _{0.3} TiO ₃ thin films. <i>Applied Physics Letters</i> , 2005 , 86, 202908	3.4	38
55	Sharp ferroelectric phase transition in strained single-crystalline SrRuO ₃ /Ba _{0.7} Sr _{0.3} TiO ₃ /SrRuO ₃ capacitors. <i>Applied Physics Letters</i> , 2003 , 83, 5011-5013	3.4	35
54	Postcoalescence evolution of growth stress in polycrystalline films. <i>Physical Review Letters</i> , 2013 , 110, 056101	7.4	33
53	Growth evolution of ZnO films deposited by pulsed laser ablation. <i>Journal of Physics Condensed Matter</i> , 2001 , 13, L663-L672	1.8	30
52	Diffusion and nucleation of yttrium atoms on Si(111)7 \times 7: A growth model. <i>Physical Review B</i> , 2002 , 66,	3.3	30
51	Direct observation of a fully strained dead layer at Ba _{0.7} Sr _{0.3} TiO ₃ /SrRuO ₃ interface. <i>Applied Physics Letters</i> , 2005 , 87, 062901	3.4	28
50	Submicron structure and acoustic properties of ZnO films deposited on (100) InP by pulsed laser deposition. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2001 , 19, 224		24
49	Role of cluster transient mobility in pulsed laser deposition-type growth kinetics. <i>Physical Review Letters</i> , 2007 , 98, 036104	7.4	23
48	Morphology evolution of thermally annealed polycrystalline thin films. <i>Physical Review B</i> , 2011 , 84,	3.3	21
47	Fabrication of arrays of SrZrO ₃ nanowires by pulsed laser deposition. <i>Nanotechnology</i> , 2004 , 15, S122-S125	3.4	20
46	Intrinsic Compressive Stress in Polycrystalline Films is Localized at Edges of the Grain Boundaries. <i>Physical Review Letters</i> , 2017 , 119, 256102	7.4	19

45	Aggregation mechanisms in the adsorption of metals on Si(111)7 \times 7. <i>Physical Review B</i> , 2003 , 67,	3.3	19
44	Epitaxial growth of Y-stabilised zirconia films on (100)InP substrates by pulsed laser deposition. <i>Journal of Crystal Growth</i> , 2000 , 209, 883-889	1.6	17
43	SrZrO ₃ Nanopatterning Using Self-Organized SrRuO ₃ as a Template. <i>Advanced Materials</i> , 2005 , 17, 281-284	2.4	15
42	Metal-cluster nanoarrays on Si(111)7 \times 7: Rate equations and kinetic Monte Carlo simulations. <i>Physical Review B</i> , 2004 , 69,	3.3	13
41	Surface deformation and ferroelectric domain switching induced by a force microscope tip on a La-modified PbTiO ₃ thin film. <i>Applied Physics Letters</i> , 2003 , 83, 2028-2030	3.4	13
40	Surface slope distribution with mathematical molding on Au(111) thin film growth. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2009 , 27, 1012-1016	2.9	12
39	Growth atomic mechanisms of pulsed laser deposited La modified- (mathsf{PbTiO_3}) perovskites. <i>European Physical Journal B</i> , 2003 , 35, 49-55	1.2	12
38	Mechanisms of preferential adsorption on the Si(1 1 1)7 \times 7 surface. <i>Surface Science</i> , 2005 , 575, 247-259	1.8	12
37	Preventing kinetic roughening in physical vapor-phase-deposited films. <i>Physical Review Letters</i> , 2008 , 100, 016102	7.4	11
36	Growth kinetics of epitaxial Y-stabilized ZrO ₂ films deposited on InP. <i>Journal of Physics Condensed Matter</i> , 2004 , 16, 8201-8211	1.8	11
35	Origin and control of the lead-enriched near-surface region of (Pb, La)TiO ₃ . <i>Applied Physics Letters</i> , 2001 , 78, 2037-2039	3.4	10
34	Mapping stress in polycrystals with sub-10 nm spatial resolution. <i>Nanoscale</i> , 2017 , 9, 13938-13946	7.7	8
33	Nucleation and growth of SrTiO ₃ /Si(100) observed by atomic force microscopy. <i>Applied Surface Science</i> , 1998 , 125, 58-64	6.7	8
32	Oxygen desorption process in CdS thin films studied by thermally stimulated current measurements. <i>Materials Letters</i> , 1996 , 29, 107-110	3.3	8
31	Pulsed laser deposition-type growth kinetics: control by moderate-sized mobile clusters. <i>New Journal of Physics</i> , 2006 , 8, 253-253	2.9	7
30	Fabrication of stress-induced SrRuO ₃ nanostructures by pulsed laser deposition. <i>Applied Physics A: Materials Science and Processing</i> , 2004 , 79, 1461-1464	2.6	7
29	Microstructure of epitaxial Ba _{0.7} Sr _{0.3} TiO ₃ /SrRuO ₃ bilayer films on SrTiO ₃ substrates. <i>Journal of Applied Physics</i> , 2005 , 97, 104907	2.5	7
28	Piezoelectric Pb _{0.7} La _{0.2} TiO ₃ prepared by pulsed laser deposition on (100)InP. <i>Applied Physics A: Materials Science and Processing</i> , 1999 , 69, S827-S831	2.6	7

27	Chemical Characterization of ZnO Films Pulsed Laser Deposited on InP. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 3505-3511	3.8	6
26	Very low resistivity CdS films by annealing in Pd-purified H ₂ . <i>Materials Letters</i> , 1995 , 25, 205-207	3.3	6
25	Slope selection-driven Ostwald ripening in ZnO thin film growth. <i>Physical Review B</i> , 2012 , 86,	3.3	5
24	Local slope evolution during thermal annealing of polycrystalline Au films. <i>Journal Physics D: Applied Physics</i> , 2012 , 45, 435301	3	5
23	Lead zirconate titanate deposited on RuO ₂ by pulsed laser ablation. <i>Applied Surface Science</i> , 1997 , 109-110, 299-304	6.7	5
22	Disclosing the origin of the postcoalescence compressive stress in polycrystalline films by nanoscale stress mapping. <i>Physical Review B</i> , 2018 , 98,	3.3	5
21	Interpretation of the roughness for a competitive columnar growth. <i>Applied Physics Letters</i> , 2007 , 90, 013112	3.4	4
20	Geometric shadowing from rippled SrRuO ₃ /SrTiO ₃ surface templates induces self-organization of epitaxial SrZrO ₃ nanowires. <i>Physical Review B</i> , 2006 , 74,	3.3	4
19	Theoretical optimization of the self-organized growth of nanoscale arrays through a figure of merit. <i>Applied Physics Letters</i> , 2004 , 85, 3714-3716	3.4	4
18	A multi-technique approach to understanding delithiation damage in LiCoO thin films. <i>Scientific Reports</i> , 2021 , 11, 12027	4.9	4
17	Nucleation of strontium titanate films grown by PLD on silicon: a kinetic model. <i>Thin Solid Films</i> , 1997 , 307, 306-310	2.2	3
16	Effects of particle size on the phase transition in Pb(Zr, Ti)O ₃ grown by the sol-gel technique. <i>Materials Letters</i> , 1998 , 34, 326-331	3.3	3
15	Routes for the integration of high and low dielectric constant oxides on InP. <i>Materials Science in Semiconductor Processing</i> , 2002 , 5, 183-187	4.3	3
14	Composition Profile of PLT Films on YSZ-Buffered (100)InP. <i>Chemistry of Materials</i> , 2001 , 13, 1061-1067	9.6	3
13	Preferential orientation of modified SrBi ₂ Nb ₂ O ₉ ferroelectric thin films prepared by pulsed laser deposition. <i>Applied Physics A: Materials Science and Processing</i> , 1999 , 69, S833-S836	2.6	3
12	Bulk characterization in a Monte Carlo particle-deposition model with a novel adherence-potential barrier. <i>Journal of Applied Physics</i> , 2016 , 120, 034902	2.5	3
11	Comment on "Correlation of shape changes of grain surfaces and reversible stress evolution during interruptions of polycrystalline film growth" [Appl. Phys. Lett. 104, 141913 (2014)]. <i>Applied Physics Letters</i> , 2014 , 105, 246101	3.4	2
10	Reducing the surface roughness beyond the pulsed-laser-deposition limit. <i>Physical Review E</i> , 2009 , 80, 041604	2.4	2

9	Pulsed laser deposition of SrTiO ₃ on InP and integration of ferro-piezo-electric Pb _{0.775} La _{0.15} TiO ₃ . <i>Applied Surface Science</i> , 2003 , 208-209, 512-517	6.7	2
8	Integration of piezoelectric (Pb, La)TiO ₃ on (100)InP by using a CeO ₂ buffer layer. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2001 , 19, 812		2
7	Clamping effect by the substrate on the intrinsic stress in polycrystalline films. <i>Journal Physics D: Applied Physics</i> , 2015 , 48, 025301	3	1
6	Morphology of films and nanostructures grown on trenched substrates by Monte Carlo simulations. <i>Thin Solid Films</i> , 2019 , 690, 137448	2.2	1
5	Scanning tunneling microscopy study of the surface electrical properties of ZnO films grown by pulsed laser deposition. <i>Physica Status Solidi A</i> , 2003 , 195, 183-187		1
4	Ferroelectric Domain Structure and Local Piezoelectric Properties of La-Modified PbTiO ₃ Thin Films Prepared by Pulsed Laser Deposition. <i>Ferroelectrics</i> , 2002 , 269, 27-32	0.6	1
3	Kinetics of intrinsic stress in nanocrystalline films. <i>Scripta Materialia</i> , 2021 , 202, 114015	5.6	1
2	A study of selected slope values in growth fronts of Au thin films. <i>Surface Science</i> , 2010 , 604, 974-980	1.8	
1	Understanding the intrinsic compression in polycrystalline films through a mean-field atomistic model. <i>Journal Physics D: Applied Physics</i> , 2021 , 54, 065302	3	