

# Enrique Vasco

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

62  
papers

1,039  
citations

18  
h-index

30  
g-index

64  
ext. papers

1,089  
ext. citations

4  
avg, IF

3.91  
L-index

#	Paper	IF	Citations
62	Understanding the intrinsic compression in polycrystalline films through a mean-field atomistic model. <i>Journal Physics D: Applied Physics</i> , <b>2021</b> , 54, 065302	3	
61	A multi-technique approach to understanding delithiation damage in LiCoO thin films. <i>Scientific Reports</i> , <b>2021</b> , 11, 12027	4.9	4
60	Kinetics of intrinsic stress in nanocrystalline films. <i>Scripta Materialia</i> , <b>2021</b> , 202, 114015	5.6	1
59	Morphology of films and nanostructures grown on trenched substrates by Monte Carlo simulations. <i>Thin Solid Films</i> , <b>2019</b> , 690, 137448	2.2	1
58	Disclosing the origin of the postcoalescence compressive stress in polycrystalline films by nanoscale stress mapping. <i>Physical Review B</i> , <b>2018</b> , 98,	3.3	5
57	Mapping stress in polycrystals with sub-10 nm spatial resolution. <i>Nanoscale</i> , <b>2017</b> , 9, 13938-13946	7.7	8
56	Intrinsic Compressive Stress in Polycrystalline Films is Localized at Edges of the Grain Boundaries. <i>Physical Review Letters</i> , <b>2017</b> , 119, 256102	7.4	19
55	Bulk characterization in a Monte Carlo particle-deposition model with a novel adherence-potential barrier. <i>Journal of Applied Physics</i> , <b>2016</b> , 120, 034902	2.5	3
54	Clamping effect by the substrate on the intrinsic stress in polycrystalline films. <i>Journal Physics D: Applied Physics</i> , <b>2015</b> , 48, 025301	3	1
53	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> , <b>2014</b> , 105, 246101	3.4	2
52	Postcoalescence evolution of growth stress in polycrystalline films. <i>Physical Review Letters</i> , <b>2013</b> , 110, 056101	7.4	33
51	Slope selection-driven Ostwald ripening in ZnO thin film growth. <i>Physical Review B</i> , <b>2012</b> , 86,	3.3	5
50	Local slope evolution during thermal annealing of polycrystalline Au films. <i>Journal Physics D: Applied Physics</i> , <b>2012</b> , 45, 435301	3	5
49	Morphology evolution of thermally annealed polycrystalline thin films. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	21
48	A study of selected slope values in growth fronts of Au thin films. <i>Surface Science</i> , <b>2010</b> , 604, 974-980	1.8	
47	Reducing the surface roughness beyond the pulsed-laser-deposition limit. <i>Physical Review E</i> , <b>2009</b> , 80, 041604	2.4	2
46	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> , <b>2009</b> , 27, 1012-1016	2.9	12

45	Preventing kinetic roughening in physical vapor-phase-deposited films. <i>Physical Review Letters</i> , <b>2008</b> , 100, 016102	7.4	11
44	Chemical Characterization of ZnO Films Pulsed Laser Deposited on InP. <i>Journal of Physical Chemistry C</i> , <b>2007</b> , 111, 3505-3511	3.8	6
43	Role of cluster transient mobility in pulsed laser deposition-type growth kinetics. <i>Physical Review Letters</i> , <b>2007</b> , 98, 036104	7.4	23
42	Interpretation of the roughness for a competitive columnar growth. <i>Applied Physics Letters</i> , <b>2007</b> , 90, 013112	3.4	4
41	Pulsed laser deposition-type growth kinetics: control by moderate-sized mobile clusters. <i>New Journal of Physics</i> , <b>2006</b> , 8, 253-253	2.9	7
40	Growth dynamics and strain relaxation mechanisms in BaTiO <sub>3</sub> pulsed laser deposited on SrRuO <sub>3</sub> /BrTiO <sub>3</sub> . <i>Physical Review B</i> , <b>2006</b> , 73,	3.3	47
39	Growth of single-crystalline KNbO <sub>3</sub> nanostructures. <i>Journal of Physical Chemistry B</i> , <b>2006</b> , 110, 58-61	3.4	140
38	Geometric shadowing from rippled SrRuO <sub>3</sub> /BrTiO <sub>3</sub> surface templates induces self-organization of epitaxial SrZrO <sub>3</sub> nanowires. <i>Physical Review B</i> , <b>2006</b> , 74,	3.3	4
37	Growth kinetics of one-dimensional KNbO <sub>3</sub> nanostructures by hydrothermal processing routes. <i>Journal of Physical Chemistry B</i> , <b>2005</b> , 109, 14331-4	3.4	48
36	Mechanisms of preferential adsorption on the Si(1 1 1)7 × 7 surface. <i>Surface Science</i> , <b>2005</b> , 575, 247-259	1.8	12
35	Ionic conduction in zirconia films of nanometer thickness. <i>Acta Materialia</i> , <b>2005</b> , 53, 5161-5166	8.4	96
34	SrZrO <sub>3</sub> Nanopatterning Using Self-Organized SrRuO <sub>3</sub> as a Template. <i>Advanced Materials</i> , <b>2005</b> , 17, 281-284	3.4	15
33	Microstructure of epitaxial Ba <sub>0.7</sub> Sr <sub>0.3</sub> TiO <sub>3</sub> /BrRuO <sub>3</sub> bilayer films on SrTiO <sub>3</sub> substrates. <i>Journal of Applied Physics</i> , <b>2005</b> , 97, 104907	2.5	7
32	Impact of the top-electrode material on the permittivity of single-crystalline Ba <sub>0.7</sub> Sr <sub>0.3</sub> TiO <sub>3</sub> thin films. <i>Applied Physics Letters</i> , <b>2005</b> , 86, 202908	3.4	38
31	Direct observation of a fully strained dead layer at Ba <sub>0.7</sub> Sr <sub>0.3</sub> TiO <sub>3</sub> /BrRuO <sub>3</sub> interface. <i>Applied Physics Letters</i> , <b>2005</b> , 87, 062901	3.4	28
30	Fabrication of arrays of SrZrO <sub>3</sub> nanowires by pulsed laser deposition. <i>Nanotechnology</i> , <b>2004</b> , 15, S122-S125	3.4	20
29	Growth kinetics of epitaxial Y-stabilized ZrO <sub>2</sub> films deposited on InP. <i>Journal of Physics Condensed Matter</i> , <b>2004</b> , 16, 8201-8211	1.8	11
28	Metal-cluster nanoarrays on Si(111)7 × 7: Rate equations and kinetic Monte Carlo simulations. <i>Physical Review B</i> , <b>2004</b> , 69,	3.3	13

27	Theoretical optimization of the self-organized growth of nanoscale arrays through a figure of merit. <i>Applied Physics Letters</i> , <b>2004</b> , 85, 3714-3716	3.4	4
26	Fabrication of stress-induced SrRuO <sub>3</sub> nanostructures by pulsed laser deposition. <i>Applied Physics A: Materials Science and Processing</i> , <b>2004</b> , 79, 1461-1464	2.6	7
25	Growth atomic mechanisms of pulsed laser deposited La modified- (mathsf{PbTiO_3}) perovskites. <i>European Physical Journal B</i> , <b>2003</b> , 35, 49-55	1.2	12
24	Pulsed laser deposition of SrTiO <sub>3</sub> on InP and integration of ferro-piezo-electric Pb <sub>0.775</sub> La <sub>0.15</sub> TiO <sub>3</sub> . <i>Applied Surface Science</i> , <b>2003</b> , 208-209, 512-517	6.7	2
23	Scanning tunneling microscopy study of the surface electrical properties of ZnO films grown by pulsed laser deposition. <i>Physica Status Solidi A</i> , <b>2003</b> , 195, 183-187		1
22	Surface deformation and ferroelectric domain switching induced by a force microscope tip on a La-modified PbTiO <sub>3</sub> thin film. <i>Applied Physics Letters</i> , <b>2003</b> , 83, 2028-2030	3.4	13
21	Early self-assembled stages in epitaxial SrRuO <sub>3</sub> on LaAlO <sub>3</sub> . <i>Applied Physics Letters</i> , <b>2003</b> , 82, 2497-2499	3.4	43
20	Aggregation mechanisms in the adsorption of metals on Si(111)7 $\times$ 7. <i>Physical Review B</i> , <b>2003</b> , 67,	3.3	19
19	Sharp ferroelectric phase transition in strained single-crystalline SrRuO <sub>3</sub> /Ba <sub>0.7</sub> Sr <sub>0.3</sub> TiO <sub>3</sub> /SrRuO <sub>3</sub> capacitors. <i>Applied Physics Letters</i> , <b>2003</b> , 83, 5011-5013	3.4	35
18	Routes for the integration of high and low dielectric constant oxides on InP. <i>Materials Science in Semiconductor Processing</i> , <b>2002</b> , 5, 183-187	4.3	3
17	Diffusion and nucleation of yttrium atoms on Si(111)7 $\times$ 7: A growth model. <i>Physical Review B</i> , <b>2002</b> , 66,	3.3	30
16	Ferroelectric Domain Structure and Local Piezoelectric Properties of La-Modified PbTiO <sub>3</sub> Thin Films Prepared by Pulsed Laser Deposition. <i>Ferroelectrics</i> , <b>2002</b> , 269, 27-32	0.6	1
15	Growth evolution of ZnO films deposited by pulsed laser ablation. <i>Journal of Physics Condensed Matter</i> , <b>2001</b> , 13, L663-L672	1.8	30
14	Submicron structure and acoustic properties of ZnO films deposited on (100) InP by pulsed laser deposition. <i>Journal of Vacuum Science &amp; Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , <b>2001</b> , 19, 224		24
13	Integration of piezoelectric (Pb, La)TiO <sub>3</sub> on (100)InP by using a CeO <sub>2</sub> buffer layer. <i>Journal of Vacuum Science &amp; Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , <b>2001</b> , 19, 812		2
12	Origin and control of the lead-enriched near-surface region of (Pb, La)TiO <sub>3</sub> . <i>Applied Physics Letters</i> , <b>2001</b> , 78, 2037-2039	3.4	10
11	Composition Profile of PLT Films on YSZ-Buffered (100)InP. <i>Chemistry of Materials</i> , <b>2001</b> , 13, 1061-1067	9.6	3
10	Epitaxial growth of Y-stabilised zirconia films on (100)InP substrates by pulsed laser deposition. <i>Journal of Crystal Growth</i> , <b>2000</b> , 209, 883-889	1.6	17

9	Piezoelectric $\text{Pb}_{0.7}\text{La}_{0.2}\text{TiO}_3$ prepared by pulsed laser deposition on (100)InP. <i>Applied Physics A: Materials Science and Processing</i> , <b>1999</b> , 69, S827-S831	2.6	7
8	Preferential orientation of modified $\text{SrBi}_2\text{Nb}_2\text{O}_9$ ferroelectric thin films prepared by pulsed laser deposition. <i>Applied Physics A: Materials Science and Processing</i> , <b>1999</b> , 69, S833-S836	2.6	3
7	Nucleation and growth of $\text{SrTiO}_3$ /Si(100) observed by atomic force microscopy. <i>Applied Surface Science</i> , <b>1998</b> , 125, 58-64	6.7	8
6	Effects of particle size on the phase transition in $\text{Pb}(\text{Zr}, \text{Ti})\text{O}_3$ grown by the sol-gel technique. <i>Materials Letters</i> , <b>1998</b> , 34, 326-331	3.3	3
5	Lead zirconate titanate deposited on $\text{RuO}_2$ by pulsed laser ablation. <i>Applied Surface Science</i> , <b>1997</b> , 109-110, 299-304	6.7	5
4	Nucleation of strontium titanate films grown by PLD on silicon: a kinetic model. <i>Thin Solid Films</i> , <b>1997</b> , 307, 306-310	2.2	3
3	Oxygen desorption process in CdS thin films studied by thermally stimulated current measurements. <i>Materials Letters</i> , <b>1996</b> , 29, 107-110	3.3	8
2	Very low resistivity CdS films by annealing in Pd-purified $\text{H}_2$ . <i>Materials Letters</i> , <b>1995</b> , 25, 205-207	3.3	6
1	Low resistivity cubic phase CdS films by chemical bath deposition technique. <i>Applied Physics Letters</i> , <b>1994</b> , 65, 1278-1280	3.4	88