

# Ingrid C Infante

## List of Publications by Year in descending order

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57  
papers

3,051  
citations

185998

28  
h-index

155451

55  
g-index

61  
all docs

61  
docs citations

61  
times ranked

4765  
citing authors

#	ARTICLE	IF	CITATIONS
1	Electric-field control of magnetic order above room temperature. Nature Materials, 2014, 13, 345-351.	13.3	451
2	Photovoltaics with Ferroelectrics: Current Status and Beyond. Advanced Materials, 2016, 28, 5153-5168.	11.1	330
3	Crafting the magnonic and spintronic response of BiFeO <sub>3</sub> films by epitaxial strain. Nature Materials, 2013, 12, 641-646.	13.3	311
4	Bridging Multiferroic Phase Transitions by Epitaxial Strain in $\text{BiFeO}_3$ . Physical Review Letters, 2010, 105, 057601.	2.9	147
5	Giant ultrafast photo-induced shear strain in ferroelectric BiFeO <sub>3</sub> . Nature Communications, 2014, 5, 4301.	5.8	129
6	Size Effect on Optical and Photocatalytic Properties in BiFeO <sub>3</sub> Nanoparticles. Journal of Physical Chemistry C, 2016, 120, 3595-3601.	1.5	119
7	Elastic and orbital effects on thickness-dependent properties of manganite thin films. Physical Review B, 2007, 76, .	1.1	93
8	Competing phases in $\text{BiFeO}_3$ thin films under compressive epitaxial strain. Physical Review B, 2010, 81, .	1.1	93
9	Multiferroic Phase Transition near Room Temperature in $\text{BiFeO}_3$ Films. Physical Review Letters, 2011, 107, 237601.	2.9	88
10	Giant Room-Temperature Elastocaloric Effect in Ferroelectric Ultrathin Films. Advanced Materials, 2014, 26, 6132-6137.	11.1	86
11	Strain dependence of polarization and piezoelectric response in epitaxial BiFeO <sub>3</sub> thin films. Journal of Physics Condensed Matter, 2012, 24, 162202.	0.7	66
12	Photoexcitation of gigahertz longitudinal and shear acoustic waves in BiFeO <sub>3</sub> multiferroic single crystal. Applied Physics Letters, 2012, 100, .	1.5	64
13	Coengineering of ferroelectric and exchange bias properties in BiFeO <sub>3</sub> based heterostructures. Applied Physics Letters, 2009, 95, .	1.5	60
14	Optical properties of integrated multiferroic BiFeO <sub>3</sub> thin films for microwave applications. Applied Physics Letters, 2010, 96, .	1.5	55
15	Sodium enhances indium-gallium interdiffusion in copper indium gallium diselenide photovoltaic absorbers. Nature Communications, 2018, 9, 826.	5.8	51
16	Prediction of giant elastocaloric strength and stress-mediated electrocaloric effect in $\text{BaTiO}_3$ single crystals. Physical Review B, 2014, 90, .	1.1	47
17	Strain effects on multiferroic BiFeO <sub>3</sub> films. Comptes Rendus Physique, 2015, 16, 193-203.	0.3	44
18	Local electrical control of magnetic order and orientation by ferroelastic domain arrangements just above room temperature. Scientific Reports, 2015, 5, 10026.	1.6	44

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19	Giant room-temperature barocaloric effect and pressure-mediated electrocaloric effect in BaTiO <sub>3</sub> single crystal. Applied Physics Letters, 2014, 104, .	1.5	43
20	Crystal structure, leakage conduction mechanism evolution and enhanced multiferroic properties in Y-doped BiFeO <sub>3</sub> ceramics. Ceramics International, 2016, 42, 13395-13403.	2.3	43
21	Effects of thickness on the cation segregation in epitaxial (001) and (110) La <sub>2/3</sub> Ca <sub>1/3</sub> MnO <sub>3</sub> thin films. Applied Physics Letters, 2009, 95, .	1.5	42
22	Ultrafast acousto-optic mode conversion in optically birefringent ferroelectrics. Nature Communications, 2016, 7, 12345.	5.8	41
23	Standardization and validation of a protocol of zeta potential measurements by electrophoretic light scattering for nanomaterial characterization. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2015, 486, 218-231.	2.3	38
24	Critical effects of substrate terraces and steps morphology on the growth mode of epitaxial SrRuO <sub>3</sub> films. Applied Physics Letters, 2004, 85, 1981-1983.	1.5	37
25	Cationic and charge segregation in La <sub>2/3</sub> Ca <sub>1/3</sub> MnO <sub>3</sub> thin films grown on (001) and (110) SrTiO <sub>3</sub> . Applied Physics Letters, 2008, 93, 112505.	1.5	36
26	Giant mechanically-mediated electrocaloric effect in ultrathin ferroelectric capacitors at room temperature. Applied Physics Letters, 2014, 104, .	1.5	36
27	Control of ferroelectricity and magnetism in multi-ferroic BiFeO <sub>3</sub> by epitaxial strain. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2014, 372, 20120438.	1.6	32
28	Self-organization in complex oxide thin films: from 2D to 0D nanostructures of SrRuO <sub>3</sub> and CoCr <sub>2</sub> O <sub>4</sub> . Nanotechnology, 2005, 16, S190-S196.	1.3	29
29	Mixtures of hyaluronic acid and liposomes for drug delivery: Phase behavior, microstructure and mobility of liposomes. International Journal of Pharmaceutics, 2017, 523, 246-259.	2.6	29
30	Step formation, faceting, and bunching in atomically flat SrTiO <sub>3</sub> (110) surfaces. Applied Physics Letters, 2007, 91, .	1.5	28
31	Spin and lattice excitations of a $\text{BiFeO}_3$ film and ceramics. Physical Review B, 2015, 91, .	1.1	27
32	Jahn-Teller contribution to the magneto-optical effect in thin-film ferromagnetic manganites. Physical Review B, 2009, 79, .	1.1	25
33	Tuning in-plane magnetic anisotropy in (110) La <sub>2/3</sub> Ca <sub>1/3</sub> MnO <sub>3</sub> films by anisotropic strain relaxation. Applied Physics Letters, 2008, 92, 012508.	1.5	24
34	Polarization Rotation in Ferroelectric Tricolor PbTiO <sub>3</sub> /SrTiO <sub>3</sub> /PbZr <sub>0.2</sub> Ti <sub>0.8</sub> O <sub>3</sub> Superlattices. ACS Applied Materials & Interfaces, 2015, 7, 19906-19913.	4.0	20
35	Anisotropic magnetoresistance in epitaxial (110) manganite films. Journal of Applied Physics, 2006, 99, 08C502.	1.1	19
36	Structure and magnetism of epitaxial PrVO <sub>3</sub> films. Journal of Physics Condensed Matter, 2013, 25, 492201.	0.7	19

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37	Functional characterization of SrTiO <sub>3</sub> tunnel barriers by conducting atomic force microscopy. Applied Physics Letters, 2006, 89, 172506.	1.5	18
38	Giant electrocaloric effect in asymmetric ferroelectric tunnel junctions at room temperature. Applied Physics Letters, 2014, 104, .	1.5	17
39	Giant Optical Polarization Rotation Induced by Spin-Orbit Coupling in Polarons. Physical Review Letters, 2016, 117, 026401.	2.9	16
40	Electronic phase separation in epitaxial La <sub>2</sub> Ca <sub>1</sub> MnO <sub>3</sub> films on (001) and (110) SrTiO <sub>3</sub> substrates. Journal of Applied Physics, 2006, 99, 08A701.	1.1	15
41	Magnetic switching in epitaxial (110) La <sub>2</sub> Ca <sub>1</sub> MnO <sub>3</sub> films. Journal of Applied Physics, 2006, 99, 08C503.	1.1	15
42	Structural and functional characterization of (110)-oriented epitaxial La <sub>2</sub> Ca <sub>1</sub> MnO <sub>3</sub> electrodes and SrTiO <sub>3</sub> tunnel barriers. Journal of Applied Physics, 2007, 101, 093902.	1.1	14
43	Surface roughening by anisotropic adatom kinetics in epitaxial growth of La <sub>0.67</sub> Ca <sub>0.33</sub> MnO <sub>3</sub> . Surface Science, 2006, 600, 1231-1239.	0.8	11
44	Controlled magnetic anisotropy of SrRuO <sub>3</sub> thin films grown on nominally exact SrTiO <sub>3</sub> (001) substrates. Applied Physics Letters, 2006, 89, 152501.	1.5	11
45	A New Method Combining Finite Element Analysis and Digital Image Correlation to Assess Macroscopic Mechanical Properties of Dentin. Materials, 2015, 8, 535-550.	1.3	11
46	Diffuse X-ray scattering from 180° ferroelectric stripe domains: polarization-induced strain, period disorder and wall roughness. Journal of Applied Crystallography, 2016, 49, 845-855.	1.9	11
47	Crystal Growth Mechanisms of BiFeO <sub>3</sub> Nanoparticles. Inorganic Chemistry, 2019, 58, 11364-11371.	1.9	11
48	Insight into magnetic, ferroelectric and elastic properties of strained BiFeO <sub>3</sub> thin films through Mössbauer spectroscopy. Applied Physics Letters, 2016, 109, .	1.5	10
49	Effect of the capping on the local Mn oxidation state in buried (001) and (110) SrTiO <sub>3</sub> /La <sub>2</sub> /3Ca <sub>1</sub> /3MnO <sub>3</sub> interfaces. Journal of Applied Physics, 2011, 110, 103903.	1.1	8
50	Planar Hall effect in epitaxial (110) La <sub>2</sub> /3Ca <sub>1</sub> /3MnO <sub>3</sub> films. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2006, 126, 283-286.	1.7	6
51	Growth modes and self-organization in the epitaxy of ferromagnetic SrRuO <sub>3</sub> on SrTiO <sub>3</sub> (001). Progress in Solid State Chemistry, 2006, 34, 213-221.	3.9	5
52	Control of the surface roughening in the epitaxial growth of manganite films. Thin Solid Films, 2006, 495, 154-158.	0.8	5
53	Effects of SrTiO <sub>3</sub> capping in La <sub>2</sub> Ca <sub>1</sub> MnO <sub>3</sub> electrodes of different orientations. Journal of Applied Physics, 2008, 103, 07E302.	1.1	5
54	Mesoporous TiO <sub>2</sub> anatase films for enhanced photocatalytic activity under UV and visible light. RSC Advances, 2020, 10, 38233-38243.	1.7	5

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55	Optical sensing of magnetic field based on magnetorefractive effect in manganites. , 2009, , .		4
56	Strong magnetorefractive effect in epitaxial La <sub>2</sub> /3Ca <sub>1</sub> /3MnO <sub>3</sub> thin films. Journal of Magnetism and Magnetic Materials, 2010, 322, 1481-1483.	1.0	4
57	Publisher's Note: Bridging Multiferroic Phase Transitions by Epitaxial Strain in BiFeO <sub>3</sub> [Phys. Rev. Lett. 105, 057601 (2010)]. Physical Review Letters, 2010, 105, .	2.9	2