

Ingrid C Infante

List of Publications by Year in descending order

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57
papers

3,051
citations

185998

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155451

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61
all docs

61
docs citations

61
times ranked

4765
citing authors

#	ARTICLE	IF	CITATIONS
1	Mesoporous TiO ₂ anatase films for enhanced photocatalytic activity under UV and visible light. RSC Advances, 2020, 10, 38233-38243.	1.7	5
2	Crystal Growth Mechanisms of BiFeO ₃ Nanoparticles. Inorganic Chemistry, 2019, 58, 11364-11371.	1.9	11
3	Sodium enhances indium-gallium interdiffusion in copper indium gallium diselenide photovoltaic absorbers. Nature Communications, 2018, 9, 826.	5.8	51
4	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
5	Insight into magnetic, ferroelectric and elastic properties of strained BiFeO ₃ thin films through Mössbauer spectroscopy. Applied Physics Letters, 2016, 109, .	1.5	10
6	Ultrafast acousto-optic mode conversion in optically birefringent ferroelectrics. Nature Communications, 2016, 7, 12345.	5.8	41
7	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
8	Crystal structure, leakage conduction mechanism evolution and enhanced multiferroic properties in Y-doped BiFeO ₃ ceramics. Ceramics International, 2016, 42, 13395-13403.	2.3	43
9	Giant Optical Polarization Rotation Induced by Spin-Orbit Coupling in Polarons. Physical Review Letters, 2016, 117, 026401.	2.9	16
10	Photovoltaics with Ferroelectrics: Current Status and Beyond. Advanced Materials, 2016, 28, 5153-5168.	11.1	330
11	Size Effect on Optical and Photocatalytic Properties in BiFeO ₃ Nanoparticles. Journal of Physical Chemistry C, 2016, 120, 3595-3601.	1.5	119
12	Spin and lattice excitations of a BiFeO ₃ film and ceramics. Physical Review B, 2015, 91, .	1.7	27
13	Strain effects on multiferroic BiFeO ₃ films. Comptes Rendus Physique, 2015, 16, 193-203.	0.3	44
14	Local electrical control of magnetic order and orientation by ferroelastic domain arrangements just above room temperature. Scientific Reports, 2015, 5, 10026.	1.6	44
15	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
16	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
17	Polarization Rotation in Ferroelectric Tricolor PbTiO ₃ /SrTiO ₃ /PbZr _{0.2} Ti _{0.8} O ₃ Superlattices. ACS Applied Materials & Interfaces, 2015, 7, 19906-19913.	4.0	20
18	Giant electrocaloric effect in asymmetric ferroelectric tunnel junctions at room temperature. Applied Physics Letters, 2014, 104, .	1.5	17

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19	Giant mechanically-mediated electrocaloric effect in ultrathin ferroelectric capacitors at room temperature. Applied Physics Letters, 2014, 104, .	1.5	36
20	Giant room-temperature barocaloric effect and pressure-mediated electrocaloric effect in BaTiO ₃ single crystal. Applied Physics Letters, 2014, 104, .	1.5	43
21	Electric-field control of magnetic order above room temperature. Nature Materials, 2014, 13, 345-351.	13.3	451
22	Giant Room-Temperature Elastocaloric Effect in Ferroelectric Ultrathin Films. Advanced Materials, 2014, 26, 6132-6137.	11.1	86
23	Prediction of giant elastocaloric strength and stress-mediated electrocaloric effect in BaTiO ₃ single crystals. Physical Review B, 2014, 90, .	1.1	47
24	Giant ultrafast photo-induced shear strain in ferroelectric BiFeO ₃ . Nature Communications, 2014, 5, 4301.	5.8	129
25	Control of ferroelectricity and magnetism in multi-ferroic BiFeO ₃ by epitaxial strain. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2014, 372, 20120438.	1.6	32
26	Crafting the magnonic and spintronic response of BiFeO ₃ films by epitaxial strain. Nature Materials, 2013, 12, 641-646.	13.3	311
27	Structure and magnetism of epitaxial PrVO ₃ films. Journal of Physics Condensed Matter, 2013, 25, 492201.	0.7	19
28	Strain dependence of polarization and piezoelectric response in epitaxial BiFeO ₃ thin films. Journal of Physics Condensed Matter, 2012, 24, 162202.	0.7	66
29	Photoexcitation of gigahertz longitudinal and shear acoustic waves in BiFeO ₃ multiferroic single crystal. Applied Physics Letters, 2012, 100, .	1.5	64
30	Effect of the capping on the local Mn oxidation state in buried (001) and (110) SrTiO ₃ /La ₂ /3Ca ₁ /3MnO ₃ interfaces. Journal of Applied Physics, 2011, 110, 103903.	1.1	8
31	Multiferroic Phase Transition near Room Temperature in BiFeO ₃ Films. Physical Review Letters, 2011, 107, 237601.	2.9	88
32	Optical properties of integrated multiferroic BiFeO ₃ thin films for microwave applications. Applied Physics Letters, 2010, 96, .	1.5	55
33	Strong magnetorefractive effect in epitaxial La ₂ /3Ca ₁ /3MnO ₃ thin films. Journal of Magnetism and Magnetic Materials, 2010, 322, 1481-1483.	1.0	4
34	Bridging Multiferroic Phase Transitions by Epitaxial Strain in BiFeO ₃ . Physical Review Letters, 2010, 105, 057601.	2.9	147
35	Competing phases in BiFeO ₃ films under compressive epitaxial strain. Physical Review B, 2010, 81, .	2.9	147
36	Publisher's Note: Bridging Multiferroic Phase Transitions by Epitaxial Strain in BiFeO ₃ [Phys. Rev. Lett. 105, 057601 (2010)]. Physical Review Letters, 2010, 105, .	2.9	2

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37	Coengineering of ferroelectric and exchange bias properties in BiFeO ₃ based heterostructures. Applied Physics Letters, 2009, 95, .	1.5	60
38	Effects of thickness on the cation segregation in epitaxial (001) and (110) La _{2/3} Ca _{1/3} MnO ₃ thin films. Applied Physics Letters, 2009, 95, .	1.5	42
39	Jahn-Teller contribution to the magneto-optical effect in thin-film ferromagnetic manganites. Physical Review B, 2009, 79, .	1.1	25
40	Optical sensing of magnetic field based on magnetorefractive effect in manganites. , 2009, , .		4
41	Tuning in-plane magnetic anisotropy in (110) La ₂ Ca ₃ MnO ₃ films by anisotropic strain relaxation. Applied Physics Letters, 2008, 92, 012508.	1.5	24
42	Cationic and charge segregation in La _{2/3} Ca _{1/3} MnO ₃ thin films grown on (001) and (110) SrTiO ₃ . Applied Physics Letters, 2008, 93, 112505.	1.5	36
43	Effects of SrTiO ₃ capping in La ₂ Ca ₃ MnO ₃ electrodes of different orientations. Journal of Applied Physics, 2008, 103, 07E302.	1.1	5
44	Step formation, faceting, and bunching in atomically flat SrTiO ₃ (110) surfaces. Applied Physics Letters, 2007, 91, .	1.5	28
45	Structural and functional characterization of (110)-oriented epitaxial La ₂ Ca ₃ MnO ₃ electrodes and SrTiO ₃ tunnel barriers. Journal of Applied Physics, 2007, 101, 093902.	1.1	14
46	Elastic and orbital effects on thickness-dependent properties of manganite thin films. Physical Review B, 2007, 76, .	1.1	93
47	Anisotropic magnetoresistance in epitaxial (110) manganite films. Journal of Applied Physics, 2006, 99, 08C502.	1.1	19
48	Growth modes and self-organization in the epitaxy of ferromagnetic SrRuO ₃ on SrTiO ₃ (001). Progress in Solid State Chemistry, 2006, 34, 213-221.	3.9	5
49	Surface roughening by anisotropic adatom kinetics in epitaxial growth of La _{0.67} Ca _{0.33} MnO ₃ . Surface Science, 2006, 600, 1231-1239.	0.8	11
50	Control of the surface roughening in the epitaxial growth of manganite films. Thin Solid Films, 2006, 495, 154-158.	0.8	5
51	Planar Hall effect in epitaxial (110) La _{2/3} Ca _{1/3} MnO ₃ films. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2006, 126, 283-286.	1.7	6
52	Controlled magnetic anisotropy of SrRuO ₃ thin films grown on nominally exact SrTiO ₃ (001) substrates. Applied Physics Letters, 2006, 89, 152501.	1.5	11
53	Functional characterization of SrTiO ₃ tunnel barriers by conducting atomic force microscopy. Applied Physics Letters, 2006, 89, 172506.	1.5	18
54	Electronic phase separation in epitaxial La ₂ Ca ₃ MnO ₃ films on (001) and (110) SrTiO ₃ substrates. Journal of Applied Physics, 2006, 99, 08A701.	1.1	15

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55	Magnetic switching in epitaxial (110) $\text{La}_{2-x}\text{Ca}_x\text{MnO}_3$ films. Journal of Applied Physics, 2006, 99, 08C503.	1.1	15
56	Self-organization in complex oxide thin films: from 2D to 0D nanostructures of SrRuO_3 and CoCr_2O_4 . Nanotechnology, 2005, 16, S190-S196.	1.3	29
57	Critical effects of substrate terraces and steps morphology on the growth mode of epitaxial SrRuO_3 films. Applied Physics Letters, 2004, 85, 1981-1983.	1.5	37