

Oswaldo DiÃ©guez

List of Publications by Year in descending order

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Version: 2024-02-01

21
papers

1,071
citations

687363

13
h-index

794594

19
g-index

21
all docs

21
docs citations

21
times ranked

1518
citing authors

#	ARTICLE	IF	CITATIONS
1	Ab initio study of the phase diagram of epitaxial BaTiO ₃ . Physical Review B, 2004, 69, .	3.2	217
2	First-principles predictions of low-energy phases of multiferroic BiFeO ₃ . Physical Review B, 2011, 83, .	3.2	216
3	Giant polarization in super-tetragonal thin films through interphase strain. Science, 2018, 361, 494-497.	12.6	173
4	First-Principles Investigation of Morphotropic Transitions and Phase-Change Functional Responses in BiFeO ₃ and BiCoO ₃ . Physical Review Letters, 2011, 107, 057601.	7.8	85
5	Domain walls in a perovskite oxide with two primary structural order parameters: First-principles study of BiFeO ₃ . Physical Review B, 2013, 87, .	3.2	69
6	Ferroelectric Domains in Multiferroic BiFeO ₃ Films under Epitaxial Strains. Physical Review Letters, 2013, 110, 187601.	7.8	54
7	Wannier-Based Definition of Layer Polarizations in Perovskite Superlattices. Physical Review Letters, 2006, 97, 107602.	7.8	46
8	Multiple structural transitions driven by spin-phonon couplings in a perovskite oxide. Science Advances, 2017, 3, e1700288.	10.3	42
9	First-Principles Calculations for Insulators at Constant Polarization. Physical Review Letters, 2006, 96, 056401.	7.8	36
10	Strain Engineering Magnetic Frustration in Perovskite Oxide Thin Films. Physical Review Letters, 2012, 109, 247202.	7.8	36
11	Epitaxial phases of BiMnO ₃ first principles. Physical Review B, 2015, 91, .		
12	Complex domain walls in BiFeO ₃ . Physical Review B, 2015, 91, .		
13	First-principles modeling of strain in perovskite ferroelectric thin films. Phase Transitions, 2008, 81, 607-622.	1.3	14
14	Polymorphism in Bi-based perovskite oxides: A first-principles study. Physical Review Materials, 2018, 2, .	2.4	10
15	Multiferroic Bi/NiMnO ₆ thin films: A computational prediction. Physical Review B, 2017, 95, .	3.2	
16	Measuring the mean inner potential of Al ₂ O ₃ sapphire using off-axis electron holography. Ultramicroscopy, 2019, 198, 18-25.	1.9	9
17	Supertetragonal Phases of Perovskite Oxides: Insights from Electronic Structure Calculations. Israel Journal of Chemistry, 2020, 60, 833-841.	2.3	6
18	Translational Covariance of Flexoelectricity at Ferroelectric Domain Walls. Physical Review X, 2022, 12, .	8.9	4

#	ARTICLE	IF	CITATIONS
19	Interface Effects on Epilayer Surface Density of States by Scanning Tunneling Spectroscopy and Density Functional Theory. <i>Advanced Theory and Simulations</i> , 2019, 2, 1900140.	2.8	2
20	Measuring the Mean Inner Potential Of Bernal Graphite Using Off-axis Electron Holography. <i>Microscopy and Microanalysis</i> , 2021, 27, 694-697.	0.4	0
21	Two types of charge ordering in bismuth nickelate. <i>Physical Review B</i> , 2021, 104, .	3.2	0