

Andrés Cano

List of Publications by Year in descending order

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83
papers

2,488
citations

218677

26
h-index

206112

48
g-index

84
all docs

84
docs citations

84
times ranked

3155
citing authors

#	ARTICLE	IF	CITATIONS
1	Non-collinear magnetism & multiferroicity: the perovskite case. ChemistrySelect, 2023, 8, 479-508.	1.5	3
2	Thin-Film Aspects of Superconducting Nickelates. Frontiers in Physics, 2022, 10, .	2.1	4
3	Topotactic fluorination of intermetallics as an efficient route towards quantum materials. Nature Communications, 2022, 13, 1462.	12.8	7
4	Geometric effects in the infinite-layer nickelates. Physical Review Materials, 2022, 6, .	2.4	13
5	NICKELATE SUPERCONDUCTORS: AN ONGOING DIALOG BETWEEN THEORY AND EXPERIMENTS. Journal of Experimental and Theoretical Physics, 2021, 159, 711-718.	0.0	1
6	Nickelate Superconductors: An Ongoing Dialog between Theory and Experiments. Journal of Experimental and Theoretical Physics, 2021, 132, 618-627.	0.9	41
7	Interconversion of multiferroic domains and domain walls. Nature Communications, 2021, 12, 2755.	12.8	14
8	Single-layer T'-type nickelates: NiG_2W is NiG_2W Physical Review Materials, 2021, 5, .	2.4	5
9	Value-based potentials: Exploiting quantitative information regularity patterns in probabilistic graphical models. International Journal of Intelligent Systems, 2021, 36, 6913-6943.	5.7	2
10	Topological thermalization via vortex formation in ultrafast quenches. Physical Review E, 2020, 101, 052113.	2.1	0
11	Infinite-layer fluoro-nickelates as NiO_2 model materials. JPhys Materials, 2020, 3, 035003.	4.2	15
12	Evidence of nodal superconductivity in LaFeSiH. Physical Review B, 2020, 101, .	3.2	3
13	LaNiO_2 many-body G_2W correlations in the electronic structure of LaNiO_2 Physical Review B, 2020, 101, .	3.2	31
14	Stability and electronic properties of $\text{LaNiO}_2/\text{SrTiO}_3$ heterostructures. JPhys Materials, 2020, 3, 03LT01.	4.2	27
15	Magnetic penetration depth and T_c in superconducting nickelates. Physical Review Research, 2020, 2, .	2.4	24
16	Improper Ferroelectric Domain Walls. , 2020, , 129-151.		2
17	Electrostatic potential mapping at ferroelectric domain walls by low-temperature photoemission electron microscopy. Applied Physics Letters, 2019, 115, .	3.3	6
18	Interplay between Ca- and Ti-driven ferroelectric distortions in (Ba, Ca)TiO ₃ solid solutions from first-principles calculations. Applied Physics Letters, 2019, 114, .	3.3	5

#	ARTICLE	IF	CITATIONS
19	Ferroelectric negative capacitance. Nature Reviews Materials, 2019, 4, 243-256.	48.7	179
20	Observation of Uncompensated Bound Charges at Improper Ferroelectric Domain Walls. Nano Letters, 2019, 19, 1659-1664.	9.1	28
21	Field-induced double spin spiral in a frustrated chiral magnet. Npj Quantum Materials, 2019, 4, .	5.2	11
22	The ultrathin limit of improper ferroelectricity. Nature Communications, 2019, 10, 5591.	12.8	44
23	Multiferroic quantum criticality. Nature Materials, 2019, 18, 223-228.	27.5	49
24	Magnetic competition in Fe-based germanide and silicide superconductors. Europhysics Letters, 2019, 128, 47004.	2.0	3
25	Iron-based superconductivity extended to the novel silicide LaFeSiH. Physical Review B, 2018, 97, .	3.2	22
26	Electrical half-wave rectification at ferroelectric domain walls. Nature Nanotechnology, 2018, 13, 1028-1034.	31.5	77
27	First-principles study of $\text{Ba}(\text{Fe}_{1-x}\text{Co}_x)_2\text{Si}_2$. Physical Review B, 2018, 97, .		
28	Frequency dependent polarisation switching in h-ErMnO ₃ . Applied Physics Letters, 2018, 112, .	3.3	26
29	Pressure-induced insulator-metal transition in EuMnO ₃ . Journal of Physics Condensed Matter, 2017, 29, 305801.	1.8	11
30	Functional electronic inversion layers at ferroelectric domain walls. Nature Materials, 2017, 16, 622-627.	27.5	127
31	Global Formation of Topological Defects in the Multiferroic Hexagonal Manganites. Physical Review X, 2017, 7, .	8.9	40
32	Topological Defects in Hexagonal Manganites: Inner Structure and Emergent Electrostatics. Nano Letters, 2017, 17, 5883-5890.	9.1	56
33	Measuring Ferroelectric Order Parameters at Domain Walls and Vortices in Hexagonal Manganites with Atomic Resolution STEM. Microscopy and Microanalysis, 2017, 23, 1636-1637.	0.4	0
34	Using Binary Trees for the Evaluation of Influence Diagrams. International Journal of Uncertainty, Fuzziness and Knowledge-Based Systems, 2016, 24, 59-89.	1.9	4
35	Optimization of Electronic Domain Wall Properties by Aliovalent Cation Substitution. Advanced Electronic Materials, 2016, 2, 1500195.	5.1	35
36	Background dielectric permittivity: Material constant or fitting parameter?. Ferroelectrics, 2016, 503, 94-103.	0.6	22

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37	Helical bunching and symmetry lowering inducing multiferroicity in Fe langasites. <i>Physical Review B</i> , 2016, 93, .	3.2	17
38	Non-collinear magnetism in multiferroic perovskites. <i>Journal of Physics Condensed Matter</i> , 2016, 28, 123001.	1.8	89
39	Incommensurate Systems as Model Compounds for Disorder Revealing Low-Temperature Glasslike Behavior. <i>Physical Review Letters</i> , 2015, 114, 195502.	7.8	22
40	Polarization control at spin-driven ferroelectric domain walls. <i>Nature Communications</i> , 2015, 6, 6661.	12.8	30
41	Ferroelectricity in the multiferroic hexagonal MnMn_2O_7 . <i>Nature Physics</i> , 2015, 11, 1070-1073.	16.7	129
42	Ferroelectric instability in nanotubes and spherical nanoshells. <i>Europhysics Letters</i> , 2015, 112, 37006.	2.0	3
43	Imaging and characterization of conducting ferroelectric domain walls by photoemission electron microscopy. <i>Applied Physics Letters</i> , 2014, 104, .	3.3	27
44	Magneto- to Electroactive Transmutation of Spin Waves in ErMnO_3 . <i>Physical Review Letters</i> , 2014, 112, 137201. read	7.8	26
45	Hidden order in hexagonal KMnF_3 . <i>Physical Review Letters</i> , 2014, 112, 137201. read	7.8	26
46	THz Magnetoelastic Atomic Rotations in the Chiral Compound Mn_2Te . <i>Physical Review Letters</i> , 2013, 110, 157208.	3.2	29
47	Effect of uniaxial pressure on the magnetostructural transitions of iron arsenide superconductors. <i>Physical Review B</i> , 2012, 85, .	3.2	12
48	Learning recursive probability trees from probabilistic potentials. <i>International Journal of Approximate Reasoning</i> , 2012, 53, 1367-1387.	3.3	9
49	Anisotropic conductance at improper ferroelectric domain walls. <i>Nature Materials</i> , 2012, 11, 284-288.	27.5	409
50	Magnetoelastic effects in iron telluride. <i>Physical Review B</i> , 2011, 83, .	3.2	24
51	Aharonov-Bohm interferences from local deformations in graphene. <i>Nature Physics</i> , 2011, 7, 810-815.	16.7	107
52	Approximate inference in Bayesian networks using binary probability trees. <i>International Journal of Approximate Reasoning</i> , 2011, 52, 49-62.	3.3	13
53	Impact of spin-nematic order on the lattice domains in thin films of iron-based superconductors. <i>Physical Review B</i> , 2011, 84, .	3.2	6

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55	Multidomain ferroelectricity as a limiting factor for voltage amplification in ferroelectric field-effect transistors. Applied Physics Letters, 2010, 97, .	3.3	111
56	Pseudoproper ferroelectricity in thin films. Physical Review B, 2010, 81, .	3.2	12
57	Interplay of magnetic and structural transitions in iron-based pnictide superconductors. Physical Review B, 2010, 82, .	3.2	101
58	Recursive Probability Trees for Bayesian Networks. Lecture Notes in Computer Science, 2010, , 242-251.	1.3	4
59	Aharonov-Bohm oscillations in the local density of states. Physical Review B, 2009, 80, .	3.2	13
60	Theory of electromagnon resonances in the optical response of spiral magnets. Physical Review B, 2009, 80, .	3.2	17
61	Koshino-Taylor effect in graphene. Physical Review B, 2009, 79, .	3.2	3
62	Electromagnon excitations in modulated multiferroics. Physical Review B, 2008, 78, .	3.2	15
63	Probing effects of modified dispersion relations with Bose-Einstein condensates. , 2008, , .		0
64	Atom-Atom Interaction Mediated by an Underlying Surface Phase Transition. Physical Review Letters, 2007, 98, 156102.	7.8	6
65	Quasinormal mode analysis in BEC acoustic black holes. Physical Review D, 2007, 75, .	4.7	15
66	On Low-Temperature Structural Phase Transitions. Journal of Superconductivity and Novel Magnetism, 2007, 19, 417-426.	1.8	4
67	Stability analysis of sonic horizons in Bose-Einstein condensates. Physical Review D, 2006, 74, .	4.7	32
68	Cano and Levanyuk Reply:. Physical Review Letters, 2006, 96, .	7.8	0
69	Influence of striction on soliton interaction in crystals. Crystallography Reports, 2005, 50, 262-269.	0.6	0
70	Structural phase transitions in two-dimensional systems: Pb/Ge(111) and Sn/Ge(111). Zeitschrift Fur Kristallographie - Crystalline Materials, 2005, 220, 663-671.	0.8	5
71	$\sqrt{3} \times \sqrt{3}$ phase transition in Pb/Ge(111) and Sn/Ge(111): a phenomenological study on the phase transition anomalies and the role of defects. Nanotechnology, 2005, 16, 325-333.	2.6	6
72	Strong effect of surfaces on resolution limit of negative-index superlens. Applied Physics Letters, 2005, 87, 103507.	3.3	11

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73	Low-temperature specific heat of real crystals: Possibility of leading contribution of optical vibrations and short-wavelength acoustical vibrations. <i>Physical Review B</i> , 2004, 70, .	3.2	9
74	Explanation of the Glasslike Anomaly in the Low-Temperature Specific Heat of Incommensurate Phases. <i>Physical Review Letters</i> , 2004, 93, 245902.	7.8	25
75	Low-temperature structural phase transitions: Phonon-like and relaxation order-parameter dynamics. <i>Physical Review B</i> , 2004, 70, .	3.2	6
76	Elasticity-driven interaction between vortices in high- T_c superconductors: leading role of a non-core contribution. <i>Physica C: Superconductivity and Its Applications</i> , 2004, 404, 226-229.	1.2	4
77	Zero- T Transitions in Order-Disorder Systems: Displacive-Like Behavior. <i>Ferroelectrics</i> , 2003, 283, 3-10.	0.6	3
78	Elasticity-driven interaction between vortices in type-II superconductors. <i>Physical Review B</i> , 2003, 68, .	3.2	18
79	Applying Numerical Trees to Evaluate Asymmetric Decision Problems. <i>Lecture Notes in Computer Science</i> , 2003, , 196-207.	1.3	6
80	Universal mechanism of discontinuity of commensurate-incommensurate transitions in three-dimensional solids: Strain dependence of soliton self-energy. <i>Physical Review B</i> , 2002, 66, .	3.2	16
81	Striction-Mediated Attraction Between Domain Walls: Main Cause of the Discontinuity of Commensurate-Incommensurate Transitions. <i>Ferroelectrics</i> , 2002, 270, 321-326.	0.6	0
82	Importance sampling in Bayesian networks using probability trees. <i>Computational Statistics and Data Analysis</i> , 2000, 34, 387-413.	1.2	73
83	Defects as a cause of continuity of normal-incommensurate phase transitions. <i>Physical Review B</i> , 2000, 62, 12014-12020.	3.2	6