

# Andrés Cano

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8011004/publications.pdf>

Version: 2024-02-01

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	Anisotropic conductance at improper ferroelectric domain walls. <i>Nature Materials</i> , 2012, 11, 284-288.	27.5	409
2	Ferroelectric negative capacitance. <i>Nature Reviews Materials</i> , 2019, 4, 243-256.	48.7	179
3	Ferroelectricity in the multiferroic hexagonal manganites. <i>Nature Physics</i> , 2015, 11, 1070-1073.	16.7	129
4	Functional electronic inversion layers at ferroelectric domain walls. <i>Nature Materials</i> , 2017, 16, 622-627.	27.5	127
5	Multidomain ferroelectricity as a limiting factor for voltage amplification in ferroelectric field-effect transistors. <i>Applied Physics Letters</i> , 2010, 97, .	3.3	111
6	Aharonov-Bohm interferences from local deformations in graphene. <i>Nature Physics</i> , 2011, 7, 810-815.	16.7	107
7	Interplay of magnetic and structural transitions in iron-based pnictide superconductors. <i>Physical Review B</i> , 2010, 82, .	3.2	101
8	Non-collinear magnetism in multiferroic perovskites. <i>Journal of Physics Condensed Matter</i> , 2016, 28, 123001.	1.8	89
9	Electrical half-wave rectification at ferroelectric domain walls. <i>Nature Nanotechnology</i> , 2018, 13, 1028-1034.	31.5	77
10	Importance sampling in Bayesian networks using probability trees. <i>Computational Statistics and Data Analysis</i> , 2000, 34, 387-413.	1.2	73
11	Topological Defects in Hexagonal Manganites: Inner Structure and Emergent Electrostatics. <i>Nano Letters</i> , 2017, 17, 5883-5890.	9.1	56
12	Multiferroic quantum criticality. <i>Nature Materials</i> , 2019, 18, 223-228.	27.5	49
13	The ultrathin limit of improper ferroelectricity. <i>Nature Communications</i> , 2019, 10, 5591.	12.8	44
14	Nickelate Superconductors: An Ongoing Dialog between Theory and Experiments. <i>Journal of Experimental and Theoretical Physics</i> , 2021, 132, 618-627.	0.9	41
15	Global Formation of Topological Defects in the Multiferroic Hexagonal Manganites. <i>Physical Review X</i> , 2017, 7, .	8.9	40
16	Optimization of Electronic Domain Wall Properties by Aliovalent Cation Substitution. <i>Advanced Electronic Materials</i> , 2016, 2, 1500195.	5.1	35
17	Stability analysis of sonic horizons in Bose-Einstein condensates. <i>Physical Review D</i> , 2006, 74, .	4.7	32
18	First-principles study of $\text{Ba}_2\text{Mn}_2\text{Sb}_2$ . <i>Physical Review B</i> , 2018, 97, .		32

#	ARTICLE	IF	CITATIONS
19	Ab initio many-body correlations in the electronic structure of $\text{LaNiO}_2$ . <i>Physical Review B</i> , 2020, 101, .	3.2	31
20	Polarization control at spin-driven ferroelectric domain walls. <i>Nature Communications</i> , 2015, 6, 6661.	12.8	30
21	Hidden order in hexagonal multiferroics ( $\text{Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 652 Td}$ ). <i>Physical Review Letters</i> , 2013, 110, 157208.	3.2	29
22	Observation of Uncompensated Bound Charges at Improper Ferroelectric Domain Walls. <i>Nano Letters</i> , 2019, 19, 1659-1664.	9.1	28
23	THz Magnetolectric Atomic Rotations in the Chiral Compound $\text{Ba}_3\text{Mn}_2\text{Fe}_2\text{O}_{14}$ . <i>Physical Review Letters</i> , 2013, 110, 157208.	7.8	27
24	Imaging and characterization of conducting ferroelectric domain walls by photoemission electron microscopy. <i>Applied Physics Letters</i> , 2014, 104, .	3.3	27
25	Stability and electronic properties of $\text{LaNiO}_2/\text{SrTiO}_3$ heterostructures. <i>JPhys Materials</i> , 2020, 3, 03LT01.	4.2	27
26	Magneto- to Electroactive Transmutation of Spin Waves in $\text{ErMnO}_3$ . <i>Physical Review Letters</i> , 2014, 112, 137201.	7.8	26
27	Frequency dependent polarisation switching in $\text{h-ErMnO}_3$ . <i>Applied Physics Letters</i> , 2018, 112, .	3.3	26
28	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
29	Magnetoelastic effects in iron telluride. <i>Physical Review B</i> , 2011, 83, .	3.2	24
30	Magnetic penetration depth and $\text{r}_m$ in superconducting nickelates. <i>Physical Review Research</i> , 2020, 2, .	3.2	24
31	Incommensurate Systems as Model Compounds for Disorder Revealing Low-Temperature Glasslike Behavior. <i>Physical Review Letters</i> , 2015, 114, 195502.	7.8	22
32	Background dielectric permittivity: Material constant or fitting parameter?. <i>Ferroelectrics</i> , 2016, 503, 94-103.	0.6	22
33	Iron-based superconductivity extended to the novel silicide $\text{LaFeSiH}$ . <i>Physical Review B</i> , 2018, 97, .	3.2	22
34	Elasticity-driven interaction between vortices in type-II superconductors. <i>Physical Review B</i> , 2003, 68, .	3.2	18
35	Theory of electromagnon resonances in the optical response of spiral magnets. <i>Physical Review B</i> , 2009, 80, .	3.2	17
36	Helical bunching and symmetry lowering inducing multiferroicity in Fe langasites. <i>Physical Review B</i> , 2016, 93, .	3.2	17

#	ARTICLE	IF	CITATIONS
37	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
38	Quasinormal mode analysis in BEC acoustic black holes. <i>Physical Review D</i> , 2007, 75, .	4.7	15
39	Electromagnon excitations in modulated multiferroics. <i>Physical Review B</i> , 2008, 78, .	3.2	15
40	Infinite-layer fluoro-nickelates as $d^9$ model materials. <i>JPhys Materials</i> , 2020, 3, 035003.	4.2	15
41	Interconversion of multiferroic domains and domain walls. <i>Nature Communications</i> , 2021, 12, 2755.	12.8	14
42	Aharonov-Bohm oscillations in the local density of states. <i>Physical Review B</i> , 2009, 80, .	3.2	13
43	Approximate inference in Bayesian networks using binary probability trees. <i>International Journal of Approximate Reasoning</i> , 2011, 52, 49-62.	3.3	13
44	Helical order and multiferroicity in the $KCu_3O_7$ system. <i>Physical Review B</i> , 2014, 89, .	3.2	13
45	Geometric effects in the infinite-layer nickelates. <i>Physical Review Materials</i> , 2022, 6, .	2.4	13
46	Pseudoproper ferroelectricity in thin films. <i>Physical Review B</i> , 2010, 81, .	3.2	12
47	Effect of uniaxial pressure on the magnetostructural transitions of iron arsenide superconductors. <i>Physical Review B</i> , 2012, 85, .	3.2	12
48	Strong effect of surfaces on resolution limit of negative-index $\epsilon$ -superlens. <i>Applied Physics Letters</i> , 2005, 87, 103507.	3.3	11
49	Pressure-induced insulator-metal transition in $\text{EuMnO}_3$ . <i>Journal of Physics Condensed Matter</i> , 2017, 29, 305801.	1.8	11
50	Field-induced double spin spiral in a frustrated chiral magnet. <i>Npj Quantum Materials</i> , 2019, 4, .	5.2	11
51	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
52	Learning recursive probability trees from probabilistic potentials. <i>International Journal of Approximate Reasoning</i> , 2012, 53, 1367-1387.	3.3	9
53	Topotactic fluorination of intermetallics as an efficient route towards quantum materials. <i>Nature Communications</i> , 2022, 13, 1462.	12.8	7
54	Defects as a cause of continuity of normal-incommensurate phase transitions. <i>Physical Review B</i> , 2000, 62, 12014-12020.	3.2	6



#	ARTICLE	IF	CITATIONS
73	Non-collinear magnetism & multiferroicity: the perovskite case. ChemistrySelect, 2023, 8, 479-508.	1.5	3
74	Magnetic competition in Fe-based germanide and silicide superconductors. Europhysics Letters, 2019, 128, 47004.	2.0	3
75	Value-based potentials: Exploiting quantitative information regularity patterns in probabilistic graphical models. International Journal of Intelligent Systems, 2021, 36, 6913-6943.	5.7	2
76	Improper Ferroelectric Domain Walls. , 2020, , 129-151.		2
77	NICKELATE SUPERCONDUCTORS: AN ONGOING DIALOG BETWEEN THEORY AND EXPERIMENTS. Journal of Experimental and Theoretical Physics, 2021, 159, 711-718.	0.0	1
78	Striction-Mediated Attraction Between Domain Walls: Main Cause of the Discontinuity of Commensurate-Incommensurate Transitions. Ferroelectrics, 2002, 270, 321-326.	0.6	0
79	Influence of striction on soliton interaction in crystals. Crystallography Reports, 2005, 50, 262-269.	0.6	0
80	Cano and Levanyuk Reply:. Physical Review Letters, 2006, 96, .	7.8	0
81	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
82	Topological thermalization via vortex formation in ultrafast quenches. Physical Review E, 2020, 101, 052113.	2.1	0
83	Probing effects of modified dispersion relations with Bose-Einstein condensates. , 2008, , .		0