Jose L Lado

List of Publications by Year in descending order

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Version: 2024-02-01

80 papers	3,273 citations	201674 27 h-index	149698 56 g-index
80 all docs	80 docs citations	80 times ranked	4534 citing authors

#	Article	IF	Citations
1	Probing magnetism in 2D van der Waals crystalline insulators via electron tunneling. Science, 2018, 360, 1218-1222.	12.6	668
2	On the origin of magnetic anisotropy in two dimensional CrI ₃. 2D Materials, 2017, 4, 035002.	4.4	524
3	A kilobyte rewritable atomic memory. Nature Nanotechnology, 2016, 11, 926-929.	31.5	123
4	Electrically Controllable Magnetism in Twisted Bilayer Graphene. Physical Review Letters, 2017, 119, 107201.	7.8	114
5	Centimeter-Scale Synthesis of Ultrathin Layered MoO₃ by van der Waals Epitaxy. Chemistry of Materials, 2016, 28, 4042-4051.	6.7	100
6	Engineering the Eigenstates of Coupled Spin- <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mn>1</mml:mn><mml:mo>/</mml:mo><mml:mn>2</mml:mn></mml:mrow></mml:math> Atoms on a Surface. Physical Review Letters, 2017, 119, 227206.	7.8	78
7	Electrically Tunable Gauge Fields in Tiny-Angle Twisted Bilayer Graphene. Physical Review Letters, 2018, 121, 146801.	7.8	77
8	Hyperfine interaction of individual atoms on a surface. Science, 2018, 362, 336-339.	12.6	74
9	Majorana Zero Modes in Graphene. Physical Review X, 2015, 5, .	8.9	71
10	Electrically Tunable Flat Bands and Magnetism in Twisted Bilayer Graphene. Physical Review Letters, 2019, 123, 096802.	7.8	69
11	Artificial heavy fermions in a van der Waals heterostructure. Nature, 2021, 599, 582-586.	27.8	69
12	Magnetic Edge Anisotropy in Graphenelike Honeycomb Crystals. Physical Review Letters, 2014, 113, 027203.	7.8	65
13	Emergence of criticality through a cascade of delocalization transitions in quasiperiodic chains. Nature Physics, 2020, 16, 832-836.	16.7	64
14	Tuning the Exchange Bias on a Single Atom from 1ÂmT to 10ÂT. Physical Review Letters, 2019, 122, 227203.	7.8	54
15	Characterization of highly crystalline lead iodide nanosheets prepared by room-temperature solution processing. Nanotechnology, 2017, 28, 455703.	2.6	45
16	Real-space mapping of topological invariants using artificial neural networks. Physical Review B, 2018, 97, .	3.2	44
17	Accessing new magnetic regimes by tuning the ligand spin-orbit coupling in van der Waals magnets. Science Advances, 2020, 6, eabb9379.	10.3	42
18	Synthesis, engineering, and theory of 2D van der Waals magnets. Applied Physics Reviews, 2021, 8, .	11.3	41

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19	Edge states in graphene-like systems. Synthetic Metals, 2015, 210, 56-67.	3.9	40
20	Electrically controlled nuclear polarization of individual atoms. Nature Nanotechnology, 2018, 13, 1120-1125.	31.5	39
21	Gap Opening in Twisted Double Bilayer Graphene by Crystal Fields. Nano Letters, 2019, 19, 8821-8828.	9.1	39
22	Exchange mechanism for electron paramagnetic resonance of individual adatoms. Physical Review B, 2017, 96, .	3.2	38
23	Ab initio study of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>Z</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math>topological phases in perovskite (111) (SrTiO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML") Tj ETQq1 1 0.784314 rgBT /Over xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow		

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37	Landau levels in 2D materials using Wannier Hamiltonians obtained by first principles. 2D Materials, 2016, 3, 035023.	4.4	21
38	Electrical spin manipulation in graphene nanostructures. Physical Review B, 2018, 97, .	3.2	21
39	Interaction-Driven Surface Chern Insulator in Nodal Line Semimetals. Physical Review Letters, 2019, 122, 016803.	7.8	21
40	Electronic properties of transition metal atoms on<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi mathvariant="normal">Cu</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:mi mathvariant="normal">N</mml:mi><mml:mo>/</mml:mo><mml:mi mathvariant="normal">Cu</mml:mi><mml:mrow><mml:mo>(</mml:mo><mml:mn>100</mml:mn><mml:mo>)</mml:mo></mml:mrow></mml:mrow> Physical Review B, 2015, 92, .	3.2	19
41	Unconventional Yuâ€“Shibaâ€“Rusinov states in hydrogenated graphene. 2D Materials, 2016, 3, 025001.	4.4	19
42	Quantum Confinement of Dirac Quasiparticles in Graphene Patterned with Subâ€Nanometer Precision. Advanced Materials, 2020, 32, e2001119.	21.0	19
43	Single spin resonance driven by electric modulation of the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>g</mml:mi></mml:math> -factor anisotropy. Physical Review Research, 2019, 1, .	3.6	18
44	Quantum Hall effect in gapped graphene heterojunctions. Physical Review B, 2013, 88, .	3.2	17
45	Defect-induced magnetism and Yu-Shiba-Rusinov states in twisted bilayer graphene. Physical Review Materials, 2019, 3, .	2.4	17
46	Non-Hermitian many-body topological excitations in interacting quantum dots. Physical Review Research, 2022, 4, .	3.6	17
47	Antichiral states in twisted graphene multilayers. Physical Review Research, 2020, 2, .	3.6	14
48	Anomalous magnetism in hydrogenated graphene. Physical Review B, 2017, 96, .	3.2	13
49	Spontaneous Valley Spirals in Magnetically Encapsulated Twisted Bilayer Graphene. Physical Review Letters, 2021, 126, 056803.	7.8	13
50	Detecting nonunitary multiorbital superconductivity with Dirac points at finite energies. Physical Review Research, 2019, 1, .	3.6	13
51	Exchange-bias controlled correlations in magnetically encapsulated twisted van der Waals dichalcogenides. Journal Physics D: Applied Physics, 2020, 53, 474001.	2.8	12
52	Correlations in the elastic Landau level of spontaneously buckled graphene. 2D Materials, 2021, 8, 015011.	4.4	12
53	Impurity-induced resonant spinon zero modes in Dirac quantum spin liquids. Physical Review Research, 2020, 2, .	3.6	12
54	Quantum spin Hall effect in rutile-based oxide multilayers. Physical Review B, 2016, 94, .	3.2	11

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55	Confinement-Engineered Superconductor to Correlated-Insulator Transition in a van der Waals Monolayer. Nano Letters, 2022, 22, 1845-1850.	9.1	11
56	Noncollinear versus collinear description of the Ir-based one-<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>t</mml:mi><mml:mrow><mml:mn>2</mml:mn><mml:mi perovskite-related compounds:<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>SrIrO</mml:mi><mml:mn>3</mml:mn></mml:msub></mml xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Sr</mml:mi><mml:mn>2</mml:mn></mml. Physical Review B, 2015, 92, .	3.2	10
57	Solitonic in-gap modes in a superconductor-quantum antiferromagnet interface. Physical Review Research, 2020, 2, .	3.6	10
58	Inducing a many-body topological state of matter through Coulomb-engineered local interactions. Physical Review Research, 2021, 3, .	3.6	9
59	Lee-Yang theory of criticality in interacting quantum many-body systems. Physical Review Research, 2021, 3, .	3.6	9
60	Spinâ€“orbit correlations and exchange-bias control in twisted Janus dichalcogenide multilayers. New Journal of Physics, 2021, 23, 073038.	2.9	8
61	Dynamical topological excitations in parafermion chains. Physical Review Research, 2021, 3, .	3.6	7
62	Correlation-induced valley topology in buckled graphene superlattices. 2D Materials, 2021, 8, 035057.	4.4	7
63	Kondo lattice mediated interactions in flat-band systems. Physical Review Research, 2021, 3, .	3.6	6
64	Tunable moire spinons in magnetically encapsulated twisted van der Waals quantum spin liquids. Physical Review Research, 2021, 3, .	3.6	5
65	Nonunitary multiorbital superconductivity from competing interactions in Dirac materials. Physical Review Research, 2022, 4, .	3.6	5
66	Quantum spin Hall phase in multilayer graphene. Physical Review B, 2015, 91, .	3.2	4
67	Electronic transport in gadolinium atomic-size contacts. Physical Review B, 2017, 95, .	3.2	4
68	Neural network enhanced hybrid quantum many-body dynamical distributions. Physical Review Research, 2021, 3, .	3.6	4
69	Electrical detection of individual skyrmions in graphene devices. Physical Review B, 2017, 96, .	3.2	3
70	Many-body Majorana-like zero modes without gauge symmetry breaking. Physical Review Research, 2021, 3, .	3.6	3
71	Designing spin-textured flat bands in twisted graphene multilayers via helimagnet encapsulation. 2D Materials, 2022, 9, 024002.	4.4	3
72	Controlling magnetism through Ising superconductivity in magnetic van der Waals heterostructures. Physical Review B, 2022, 105, .	3.2	3

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73	Interaction-induced topological superconductivity in antiferromagnet-superconductor junctions. Physical Review Research, 2021, 3, .	3.6	2
74	Quasiperiodic criticality and spin-triplet superconductivity in superconductor-antiferromagnet moirÃ© patterns. Physical Review Research, 2021, 3, .	3.6	2
75	Putting a twist on spintronics. Science, 2021, 374, 1048-1049.	12.6	2
76	Noncontact Andreev Reflection as a Direct Probe of Superconductivity on the Atomic Scale. Nano Letters, 2022, 22, 4042-4048.	9.1	2
77	Dirac topological insulator in the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>d</mml:mi><mml:msup><mml:mi>z</mml:mi><mml:mi>2</mml:mi></mml:msup></mml:msub></mml:math> of a honeycomb oxide. Physical Review B, 2016, 94, .	3.2	1
78	A layered unconventional superconductor. Nature Physics, 0, , .	16.7	1
79	Topological features of engineered arrays of adsorbates in honeycomb lattices. Physica B: Condensed Matter, 2016, 496, 1-8.	2.7	0
80	Emergent quantum matter in graphene nanoribbons. , 0, , .		0