Publications — Jose L. Lado

152 published articles, 17 preprints and 7 research perspectives

2026

1. Netta Karjalainen, Greta Lupi, Rouven Koch, Adolfo O. Fumega, Jose L. Lado, **Hamiltonian learning quantum magnets with dynamical impurity tomography**, *Phys. Rev. Research 8, 033281 (2026)*
2. Petro Maksymovych, Sang Yong Song, Benjamin Lawrie, Wonhee Ko, Jose L. Lado, **Fingerprinting superconductors by disentangling Andreev and quasiparticle currents across tunable tunnel junctions**, *Small (2026)*
3. Milla Kolehmainen, Jose L. Lado, Anouar Moustaj, **One-dimensional quasicrystals with tensor-network finite-state automata**, *arXiv:2609.06040*
4. Ana Vera Montoto, Jose L. Lado, Adolfo O. Fumega, **Moiré Mott correlated mosaics in twisted bilayer 1T-TaS2**, *Nano Letters (2026)*
5. Elizabeth Louis Pereira, Hongwei Li, Andrea Blanco-Redondo, Jose L. Lado, **Topology and criticality in non-Hermitian multimodal optical resonators through engineered losses**, *Phys. Rev. Research 8, 033132 (2026)*
6. Sebastián Domínguez-Calderón, Marcel Niedermeier, Jose L. Lado, Pascal M. Vecsei, **Quantum circuit algorithm for topological invariants of second-order topological many-body quantum magnets**, *Phys. Rev. B 114, 065139 (2026)*
7. David van Driel, Rouven Koch, Vincent P. M. Sietses, Sebastiaan L. D. ten Haaf, Chun-Xiao Liu, Francesco Zatelli, Bart Roovers, Alberto Bordin, Nick van Loo, Guanzhong Wang, Jan Cornelis Wolff, Grzegorz P. Mazur, Tom Dvir, Ivan Kulesh, Qingzhen Wang, A. Mert Bozkurt, Sasa Gazibegovic, Ghada Badawy, Erik P. A. M. Bakkers, Michael Wimmer, Srijit Goswami, Jose L. Lado, Leo P. Kouwenhoven, Eliska Greplova, **Cross-Platform Autonomous Control of Minimal Kitaev Chains**, *PRX Intelligence 1, 013005 (2026)*
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10. Alberto M. Ruiz, Cuiju Yu, Diego López-Alcalá, Jose L. Lado, Adolfo O. Fumega, José J. Baldoví, **Electrical Control of Altermagnetism in a Quasi-1D Magnet**, *arXiv:2607.16856*
11. Büşra Gamze Arslan, Mohammad Amini, Ziying Wang, Alessandro Orsini, Jose L. Lado, Adolfo O. Fumega, Robert Drost, Peter Liljeroth, **Emergent ferromagnetism in the NiI2-NbSe2 van der Waals heterostructure**, *arXiv:2607.21218*
12. Ziying Wang, Ana Vera Montoto, Mohammad Amini, Yuxiao Ding, Jose L. Lado, Robert Drost, Adolfo O. Fumega, Peter Liljeroth, **Interaction-driven electronic ferroelectricity in van der Waals heterostructures**, *arXiv:2607.24087*
13. Tiago V. C. Antão, Anouar Moustaj, Yitao Sun, Jose L. Lado, **Tensor network solvers for ultra-large tight-binding Hamiltonians: algorithms and applications**, *arXiv:2607.00991*
14. Youqiang Huang, Tiago V. C. Antão, Adolfo O. Fumega, Mikko Turunen, Yi Zhang, Hanlin Fang, Nianze Shang, Juan C. Arias-Muñoz, Fedor Nigmatulin, Hao Hong, Andrew S. Kim, Faisal Ahmed, Hyunyong Choi, Sanshui Xiao, Kaihui Liu, Jose L. Lado, Zhipei Sun, **Observation of tunable chiral spin textures with nonlinear optics**, *Nature Communications 17, 7576 (2026)*
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