

# Alejandro Ferron

## List of Publications by Year in descending order

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28  
papers

596  
citations

516710

16  
h-index

610901

24  
g-index

28  
all docs

28  
docs citations

28  
times ranked

501  
citing authors

#	ARTICLE	IF	CITATIONS
1	Engineering the Eigenstates of Coupled Spin- $\frac{1}{2}$ Atoms on a Surface. Physical Review Letters, 2017, 119, 227206.	7.8	78
2	Hyperfine interaction of individual atoms on a surface. Science, 2018, 362, 336-339.	12.6	74
3	Tuning the Exchange Bias on a Single Atom from 1 mT to 10 mT. Physical Review Letters, 2019, 122, 227203.	7.8	54
4	Electrically controlled nuclear polarization of individual atoms. Nature Nanotechnology, 2018, 13, 1120-1125.	31.5	39
5	Exchange mechanism for electron paramagnetic resonance of individual atoms. Physical Review B, 2017, 96, .	3.2	38
6	Entanglement in resonances of two-electron quantum dots. Physical Review A, 2009, 79, .	2.5	32
7	Tailoring Population Inversion in Landau-Zener-Stückelberg Interferometry of Flux Qubits. Physical Review Letters, 2012, 109, 237005.	7.8	26
8	Controlled Complete Suppression of Single-Atom Inelastic Spin and Orbital Cotunneling. Nano Letters, 2015, 15, 6542-6546.	9.1	25
9	Finite-size scaling for critical conditions for stable quadrupole-bound anions. Journal of Chemical Physics, 2004, 120, 8412-8419.	3.0	24
10	Intrinsic leakage of the Josephson flux qubit and breakdown of the two-level approximation for strong driving. Physical Review B, 2010, 81, .	3.2	24
11	Impurity effects in two-electron coupled quantum dots: entanglement modulation. Journal of Physics B: Atomic, Molecular and Optical Physics, 2013, 46, 065501.	1.5	22
12	Electronic properties of transition metal atoms on $\text{Cu}_2$ . Physical Review B, 2015, 92, .	3.2	19
13	Dynamic transition in Landau-Zener-Stückelberg interferometry of dissipative systems: The case of the flux qubit. Physical Review B, 2016, 93, .	3.2	19
14	Large-amplitude harmonic driving of highly coherent flux qubits. Physical Review B, 2010, 82, .	3.2	18
15	Single spin resonance driven by electric modulation of the $g$ -factor anisotropy. Physical Review Research, 2019, 1, .	3.6	18
16	Derivation of the spin Hamiltonians for Fe in MgO. New Journal of Physics, 2015, 17, 033020.	2.9	17
17	Near-threshold properties of the electronic density of layered quantum dots. Physical Review B, 2012, 85, .	3.2	11
18	Controlled quantum state transfer in XX spin chains at the Quantum Speed Limit. Physics Letters, Section A: General, Atomic and Solid State Physics, 2021, 387, 127009.	2.1	10

#	ARTICLE	IF	CITATIONS
19	Dimensional scaling for stability of two particles in a dipole field. <i>Chemical Physics Letters</i> , 2008, 461, 127-130.	2.6	9
20	Quantum control of a model qubit based on a multi-layered quantum dot. <i>Journal of Applied Physics</i> , 2013, 113, .	2.5	8
21	Optimal control of a charge qubit in a double quantum dot with a Coulomb impurity. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2017, 86, 36-43.	2.7	8
22	Evaluation of Two-Center, Two-Electron Integrals. <i>Journal of Chemical Theory and Computation</i> , 2006, 2, 306-311.	5.3	7
23	Critical conditions for stable dipole-bound dianions. <i>Journal of Chemical Physics</i> , 2008, 128, 044307.	3.0	6
24	Stability of two-electron diatomic molecules. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2007, 40, 995-1002.	1.5	3
25	Stability conditions for hydrogen-antihydrogen-like quasimolecules. <i>Physical Review A</i> , 2008, 77, .	2.5	2
26	Mesoscopic fluctuations in biharmonically driven flux qubits. <i>Physical Review B</i> , 2017, 95, .	3.2	2
27	Fast optical control of a coded qubit in a triple quantum dot. <i>Physica Scripta</i> , 2019, 94, 025101.	2.5	2
28	Weak localization and conductance fluctuations-like effects in Qubits driven by biharmonic signals. <i>Journal of Physics: Conference Series</i> , 2014, 568, 052028.	0.4	1