

MarÃ-a J CalderÃ³n

List of Publications by Year in descending order

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64
papers

2,224
citations

201674

27
h-index

223800

46
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67
all docs

67
docs citations

67
times ranked

2745
citing authors

#	ARTICLE	IF	CITATIONS
1	The Role of Orbital Nesting in the Superconductivity of Iron-Based Superconductors. Condensed Matter, 2021, 6, 34.	1.8	0
2	Correlated states in magic angle twisted bilayer graphene under the optical conductivity scrutiny. Npj Quantum Materials, 2020, 5, .	5.2	14
3	Interactions in the 8-orbital model for twisted bilayer graphene. Physical Review B, 2020, 102, .	3.2	27
4	Lifting of spin blockade by charged impurities in Si-MOS double quantum dot devices. Physical Review B, 2020, 101, .	3.2	3
5	The nature of correlations in the insulating states of twisted bilayer graphene. Journal of Physics Communications, 2019, 3, 035024.	1.2	43
6	Enhancement of spin-orbit coupling at manganite surfaces. Physical Review B, 2018, 98, .	3.2	5
7	Two-dimensional semiconductors pave the way towards dopant-based quantum computing. Beilstein Journal of Nanotechnology, 2018, 9, 2668-2673.	2.8	3
8	Signatures of atomic-scale structure in the energy dispersion and coherence of a Si quantum-dot qubit. Physical Review B, 2018, 98, .	3.2	17
9	Electric-field tuning of the valley splitting in silicon corner dots. Applied Physics Letters, 2018, 113, .	3.3	23
10	Entanglement control and magic angles for acceptor qubits in Si. Applied Physics Letters, 2018, 113, .	3.3	11
11	Strong correlations and the search for high- T_c superconductivity in chromium pnictides and chalcogenides. Physical Review B, 2017, 95, .	1.8	18
12	Spin qubit manipulation of acceptor bound states in group IV quantum wells. New Journal of Physics, 2017, 19, 043027.	2.9	9
13	Donor wave functions in Si gauged by STM images. Physical Review B, 2016, 93, .	3.2	18
14	Interface effects on acceptor qubits in silicon and germanium. Nanotechnology, 2016, 27, 024003.	2.6	10
15	Magnetic interactions in iron superconductors: A review. Comptes Rendus Physique, 2016, 17, 36-59.	0.9	60
16	Theory of one and two donors in silicon. Journal of Physics Condensed Matter, 2015, 27, 154208.	1.8	40
17	Correlation, doping, and interband effects on the optical conductivity of iron superconductors. Physical Review B, 2014, 90, .	3.2	20
18	Signatures of a Two-Dimensional Ferromagnetic Electron Gas at the $\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3/\text{SrTiO}_3$ Interface Arising From Orbital Reconstruction. Advanced Materials, 2014, 26, 7516-7520.	21.0	23

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37	Quantum dot valley interference effects on a donor electron close to a Si/SiO_2 interface. Physical Review B, 2008, 77, .	3.2	14
38	Magneto-resistance of an all-manganite spin valve: A thin antiferromagnetic insulator sandwiched between two ferromagnetic metallic electrodes. Physical Review B, 2008, 77, .	3.2	34
39	Electron gas at the interface between two antiferromagnetic insulating manganites. Physical Review B, 2008, 78, .	3.2	12
40	Limited local electron-lattice coupling in manganites: An electron diffraction study. Physical Review B, 2008, 77, .	3.2	8
41	External field control of donor electron exchange at the Si/SiO_2 interface. Physical Review B, 2007, 75, .	3.2	45
42	Proposal for electron spin relaxation measurements using double-donor excited states in Si quantum computer architectures. Physical Review B, 2007, 75, .	3.2	6
43	Reentrant ferromagnetism in a class of diluted magnetic semiconductors. Physical Review B, 2007, 75, .	3.2	13
44	Reliability of the Heitler-London approach for the exchange coupling between electrons in semiconductor nanostructures. Physical Review B, 2007, 76, .	3.2	11
45	Quantum control of donor-bound electrons at the Si-SiO ₂ interface. AIP Conference Proceedings, 2007, .	0.4	0
46	Theory of carrier mediated ferromagnetism in dilute magnetic oxides. Annals of Physics, 2007, 322, 2618-2634.	2.8	98
47	The current spin on manganites. Materials Today, 2007, 10, 24-32.	14.2	95
48	Mean-field theory for double perovskites: Coupling between itinerant electron spins and localized spins. Physical Review B, 2006, 74, .	3.2	36
49	Magnetic-field-assisted manipulation and entanglement of Si spin qubits. Physical Review B, 2006, 74, .	3.2	7
50	Strain control of superlattice implies weak charge-lattice coupling in $\text{La}_{0.5}\text{Ca}_{0.5}\text{MnO}_3$. Physical Review B, 2006, 73, .	3.2	26
51	Quantum Control of Donor Electrons at the Si/SiO_2 Interface. Physical Review Letters, 2006, 96, 096802.	7.8	83
52	Exchange coupling in semiconductor nanostructures: Validity and limitations of the Heitler-London approach. Physical Review B, 2006, 74, .	3.2	14
53	Electronically soft phases in manganites. Nature, 2005, 433, 607-610.	27.8	257
54	Evaluation of evidence for magnetic polarons in EuB_6 . Physical Review B, 2004, 70, .	3.2	18

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55	Strain selection of charge and orbital ordering patterns in half-doped manganites. Physical Review B, 2003, 68, .	3.2	52
56	Impurity-semiconductor band hybridization effects on the critical temperature of diluted magnetic semiconductors. Physical Review B, 2002, 66, .	3.2	39
57	Skyrmion strings contribution to the anomalous Hall effect in double-exchange systems. Physical Review B, 2001, 63, .	3.2	20
58	Spin Dependent Tunneling. , 2001, , 159-171.		2
59	Low-temperature resistivity in double-exchange systems. Physical Review B, 2001, 64, .	3.2	14
60	Stability and dynamics of free magnetic polarons. Physical Review B, 2000, 62, 3368-3371.	3.2	14
61	Conductance as a function of temperature in the double-exchange model. Physical Review B, 1999, 59, 4170-4175.	3.2	29
62	Surface electronic structure and magnetic properties of doped manganites. Physical Review B, 1999, 60, 6698-6704.	3.2	124
63	Monte Carlo simulations for the magnetic phase diagram of the double-exchange Hamiltonian. Physical Review B, 1998, 58, 3286-3292.	3.2	53
64	Backscattering from perfectly reflective random media. Physical Review B, 1997, 55, R11911-R11914.	3.2	9