

# Armando A Aligia

## List of Publications by Year in descending order

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104  
papers

2,419  
citations

201674

27  
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254184

43  
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111  
all docs

111  
docs citations

111  
times ranked

1446  
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanical Control of Spin States in Spin-1 Molecules and the Underscreened Kondo Effect. <i>Science</i> , 2010, 328, 1370-1373.	12.6	399
2	Brinkman-Rice transition in layered perovskites. <i>Physical Review B</i> , 1993, 48, 7471-7477.	3.2	69
3	Universal transport signatures in two-electron molecular quantum dots: gate-tunable Hund's rule, underscreened Kondo effect and quantum phase transitions. <i>Journal of Physics Condensed Matter</i> , 2011, 23, 243202.	1.8	59
4	Mirages and many-body effects in quantum corrals. <i>Journal of Physics Condensed Matter</i> , 2005, 17, S1095-S1122.	1.8	49
5	Magnetotransport through a quantum wire side coupled to a quantum dot. <i>Physical Review B</i> , 2004, 70, .	3.2	47
6	Effects of Interactions in Transport through Aharonov-Bohm-Casher Interferometers. <i>Physical Review Letters</i> , 2008, 100, 016803.	7.8	46
7	Kondo and anti-Kondo resonances in transport through nanoscale devices. <i>Physical Review B</i> , 2002, 65, .	3.2	45
8	Nonequilibrium magnetotransport through a quantum dot: An interpolative perturbative approach. <i>Physical Review B</i> , 2006, 74, .	3.2	44
9	Effective Hamiltonian for cuprate superconductors. <i>Physical Review B</i> , 1993, 47, 8929-8935.	3.2	42
10	Quantum Interference in Coherent Molecular Conductance. <i>Physical Review Letters</i> , 2009, 103, 266807.	7.8	42
11	Excitons in insulating cuprates. <i>Physical Review B</i> , 1996, 54, R3780-R3783.	3.2	41
12	Integrability of a general model for intermediate valence. <i>Physical Review B</i> , 1986, 33, 6476-6487.	3.2	40
13	Phase diagrams from topological transitions: The Hubbard chain with correlated hopping. <i>Physical Review B</i> , 2000, 61, 7883-7886.	3.2	40
14	Many-body theory of the quantum mirage. <i>Physical Review B</i> , 2001, 64, .	3.2	40
15	Thermal transport in one-dimensional spin heterostructures. <i>Physical Review B</i> , 2009, 80, .	3.2	38
16	Optical properties of an effective one-band Hubbard model for the cuprates. <i>Physical Review B</i> , 1997, 56, 5637-5647.	3.2	37
17	Nonequilibrium dynamics of a singlet-triplet Anderson impurity near the quantum phase transition. <i>Journal of Physics Condensed Matter</i> , 2010, 22, 025602.	1.8	37
18	Systematic derivation of a generalized $t$ - $J$ model. <i>Physical Review B</i> , 1994, 49, 13061-13064.	3.2	34

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19	Conductance through an array of quantum dots. Physical Review B, 2006, 74, .	3.2	34
20	Nonequilibrium transport through a singlet-triplet Anderson impurity. Physical Review B, 2009, 80, .	3.2	33
21	Spectral density of an interacting dot coupled indirectly to conducting leads. Physical Review B, 2007, 76, .	3.2	32
22	Incommensurability and Unconventional Superconductor to Insulator Transition in the Hubbard Model with Bond-Charge Interaction. Physical Review Letters, 2007, 99, 206401.	7.8	32
23	Validity of the t-J model. Physical Review B, 1993, 48, 4212-4215.	3.2	30
24	Nonequilibrium conductance of a nanodevice for small bias voltage. Journal of Physics Condensed Matter, 2012, 24, 015306.	1.8	30
25	Thermopower of an SU(4) Kondo resonance under an SU(2) symmetry-breaking field. Physical Review B, 2012, 86, .	3.2	30
26	Fractional Spin and Josephson Effect in Time-Reversal-Invariant Topological Superconductors. Physical Review Letters, 2017, 119, 046801.	7.8	30
27	Detection of Topological Transitions by Transport Through Molecules and Nanodevices. Physical Review Letters, 2004, 93, 076801.	7.8	28
28	$d_{x^2-y^2}$ superconductivity in a generalized Hubbard model. Physical Review B, 1999, 59, 1333-1338.	3.2	27
29	Persistent currents in mesoscopic rings with a quantum dot. Physical Review B, 2002, 66, .	3.2	27
30	Polarization dependence of x-ray absorption spectra of $\text{Na}_x\text{CoO}_2$ : Electronic structure from cluster calculations. Physical Review B, 2006, 74, .	3.2	27
31	Quantum transport through a stretched spin-1 molecule. Europhysics Letters, 2011, 93, 47005.	2.0	27
32	Effective Kondo Model for a Trimer on a Metallic Surface. Physical Review Letters, 2006, 96, 096804.	7.8	26
33	Universal scaling in nonequilibrium transport through an Anderson impurity. Physical Review B, 2009, 79, .	3.2	26
34	Charge dynamics in the Mott insulating phase of the ionic Hubbard model. Physical Review B, 2004, 69, .	3.2	24
35	Orbital Kondo spectroscopy in a double quantum dot system. Physical Review B, 2013, 88, .	3.2	24
36	Nonequilibrium transport through magnetic vibrating molecules. Physical Review B, 2013, 87, .	3.2	23

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37	Interplay between quantum interference and Kondo effects in nonequilibrium transport through nanoscopic systems. <i>Physical Review B</i> , 2011, 84, .	3.2	22
38	Spin dynamics of hole-doped Y <sub>2</sub> BaNiO <sub>5</sub> . <i>Europhysics Letters</i> , 1998, 43, 71-76.	2.0	21
39	Bethe ansatz solution of a model for valence fluctuations between two magnetic configurations. <i>Physical Review B</i> , 1985, 31, 6143-6145.	3.2	20
40	Superconductivity and incommensurate spin fluctuations in a generalized t-J model for the cuprates. <i>Europhysics Letters</i> , 1997, 38, 147-152.	2.0	20
41	Nonequilibrium self-energies, Ng approach, and heat current of a nanodevice for small bias voltage and temperature. <i>Physical Review B</i> , 2014, 89, .	3.2	20
42	Features of spin-charge separation in the equilibrium conductance through finite rings. <i>Physical Review B</i> , 2009, 79, .	3.2	19
43	Non-equilibrium conductance through a benzene molecule in the Kondo regime. <i>Journal of Physics Condensed Matter</i> , 2012, 24, 365301.	1.8	19
44	Quasiparticle photoemission intensity in doped two-dimensional quantum antiferromagnets. <i>Physical Review B</i> , 1997, 55, 14092-14095.	3.2	18
45	Dynamical Mean Field Theory of an Effective Three-Band Model for Na <sub>x</sub> CoO <sub>2</sub> . <i>Physical Review Letters</i> , 2009, 102, 066402.	7.8	18
46	Effective Hamiltonian for transition-metal compounds: Application to $\text{Na}x\text{CoO}_2$ . <i>Physical Review B</i> , 2010, 81, .	3.2	18
47	Impact of capacitance and tunneling asymmetries on Coulomb blockade edges and Kondo peaks in nonequilibrium transport through molecular quantum dots. <i>Physical Review B</i> , 2015, 92, .	3.2	18
48	Electronic structure and Fermi-surface topology of Na <sub>x</sub> CoO <sub>2</sub> . <i>Physical Review B</i> , 2007, 75, .	3.2	17
49	Spectral evolution of the SU(4) Kondo effect from the single impurity to the two-dimensional limit. <i>Physical Review B</i> , 2014, 89, .	3.2	17
50	Non-Fermi-Liquid Behavior in Transport Through Co-Doped Au Chains. <i>Physical Review Letters</i> , 2013, 110, 196402.	7.8	16
51	Entangled end states with fractionalized spin projection in a time-reversal-invariant topological superconducting wire. <i>Physical Review B</i> , 2018, 98, .	3.2	16
52	Bethe-ansatz solution of a model for a mixed valent impurity with two magnetic configurations: II. Numerical solution of the thermodynamic equations. <i>European Physical Journal B</i> , 1986, 62, 311-317.	1.5	15
53	Magnetic and orbital ordering of RuO <sub>2</sub> planes in RuSr <sub>2</sub> (Eu,Gd)Cu <sub>2</sub> O <sub>8</sub> . <i>Physical Review B</i> , 2004, 70, .	3.2	15
54	Heat current across a capacitively coupled double quantum dot. <i>Physical Review B</i> , 2020, 101, .	3.2	15

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55	Comment on "Zero-field Kondo Splitting and Quantum-Critical Transition in Double Quantum Dots": Physical Review Letters, 2007, 99, 209701; discussion 209702.	7.8	14
56	Restoring the SU(4) Kondo regime in a double quantum dot system. Journal of Physics Condensed Matter, 2015, 27, 335601.	1.8	14
57	Manipulation of the surface density of states of Ag(111) by means of resonators: Experiment and theory. Physical Review B, 2016, 94, .	3.2	14
58	Quantifying the leading role of the surface state in the Kondo effect of Co/Ag(111). Physical Review B, 2018, 97, .	3.2	14
59	Relation between width of zero-bias anomaly and Kondo temperature in transport measurements through correlated quantum dots: Effect of asymmetric coupling to the leads. Physical Review B, 2018, 98, .	3.2	13
60	Fully compensated Kondo effect for a two-channel spin $S=1$ impurity. Physical Review B, 2019, 100, .	3.2	13
61	Catalog of Andreev spectra and Josephson effects in structures with time-reversal-invariant topological superconductor wires. Physical Review B, 2019, 99, .	3.2	13
62	Ground state and magnetic susceptibility of intermediate-valence Tm impurities. Physical Review B, 1995, 52, 7987-7993.	3.2	12
63	Angle-resolved Cu and O photoemission intensities in CuO <sub>2</sub> planes. Physical Review B, 1999, 59, 14092-14098.	3.2	12
64	Singlet Orbital Ordering in Bilayer SrO <sub>7</sub> . Physical Review Letters, 2017, 118, 207207.	3.2	12
65	Comment on "Universal Out-of-Equilibrium Transport in Kondo-Correlated Quantum Dots: Renormalized Dual Fermions on the Keldysh Contour": Physical Review Letters, 2013, 111, 089701.	7.8	11
66	Non-Fermi-liquid behavior in nonequilibrium transport through Co-doped Au chains connected to fourfold symmetric leads. Physical Review B, 2014, 90, .	3.2	11
67	Generalized One-Band Model Based on Zhang-Rice Singlets for Tetragonal CuO. Physical Review Letters, 2018, 120, 177001.	7.8	11
68	Valence fluctuations in a lattice of magnetic molecules: Application to iron(II) phthalocyanine molecules on Au(111). Europhysics Letters, 2015, 109, 37011.	2.0	10
69	Replicas of the Kondo peak due to electron-vibration interaction in molecular transport properties. Physical Review B, 2016, 93, .	3.2	10
70	Iron phthalocyanine on Au(111) is a non-Landau-Fermi liquid. Nature Communications, 2021, 12, 6027.	12.8	10
71	Low-Energy Physics of Hole Doped Y <sub>2</sub> BaNiO <sub>5</sub> . Physical Review Letters, 1998, 81, 4027-4027.	7.8	9
72	Effect of covalency and interactions on the trigonal splitting in Na <sub>x</sub> CoO <sub>2</sub> . Physical Review B, 2013, 88, .	3.2	9

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73	Orbital Kondo effect in V-doped $1\text{-CrSe}_2$ . Physical Review B, 2013, 88, .	3.2	9
74	Intrasublattice Hopping and $T_{\text{cmax}}$ in the Cuprates. Physical Review Letters, 1997, 79, 3793-3793.	7.8	8
75	Scaling of conductance through quantum dots with magnetic field. Physical Review B, 2015, 92, .	3.2	8
76	Two-stage three-channel Kondo physics for an FePc molecule on the Au(111) surface. Journal of Physics Condensed Matter, 2018, 30, 374003.	1.8	8
77	Tomography of Zero-Energy End Modes in Topological Superconducting Wires. Physical Review Letters, 2020, 125, 256801.	7.8	8
78	Theory of Differential Conductance of Co on Cu(111) Including Co $s$ and $d$ Orbitals, and Surface and Bulk Cu States. Physical Review Letters, 2021, 126, 046801.	7.8	8
79	Spin selective transport through Aharonov-Bohm and Aharonov-Casher triple quantum dot systems. Physica Status Solidi (B): Basic Research, 2011, 248, 732-740.	1.5	7
80	Kondo physics in a Ni impurity embedded in O-doped Au chains. Physical Review B, 2015, 92, .	3.2	7
81	Kondo behavior and conductance through $3d$ impurities in gold chains doped with oxygen. Journal of Chemical Physics, 2017, 146, .	3.0	7
82	Width of the charge-transfer peak in the $SU(N)$ impurity Anderson model and its relevance to nonequilibrium transport. Physical Review B, 2018, 97, .	3.2	7
83	Magnetostriction reveals orthorhombic distortion in tetragonal Gd compounds. Physical Review B, 2019, 99, .	3.2	7
84	Photoluminescence of a Quantum Dot Hybridized with a Continuum of Extended States. Physical Review Letters, 2009, 103, 156802.	7.8	6
85	Unusual Kondo Physics in a Co Impurity Atom Embedded in Noble-Metal Chains. IEEE Transactions on Magnetics, 2013, 49, 4683-4686.	2.1	6
86	Kondo temperature when the Fermi level is near a step in the conduction density of states. Physical Review B, 2017, 95, .	3.2	6
87	Topological quantum phase transition between Fermi liquid phases in an Anderson impurity model. Physical Review B, 2018, 98, .	3.2	6
88	Spin and orbital ordering in bilayer $\text{Sr}_3\text{O}_7$ . Physical Review B, 2019, 99, .	3.2	6
89	The Ground State of Dilute Tm Systems is Degenerate. Europhysics Letters, 1990, 13, 739-744.	2.0	5
90	Leading temperature dependence of the conductance in Kondo-correlated quantum dots. Journal of Physics Condensed Matter, 2018, 30, 155304.	1.8	5

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91	Destructive quantum interference in transport through molecules with electron-electron and electron-vibration interactions. Journal of Physics Condensed Matter, 2019, 31, 465602.	1.8	5
92	Phase diagram of a model for topological superconducting wires. Physical Review B, 2021, 104, .	3.2	5
93	Self-consistent hybridization expansions for static properties of the Anderson impurity model. Physica Status Solidi (B): Basic Research, 2016, 253, 478-485.	1.5	4
94	Exact analytical solution of a time-reversal-invariant topological superconducting wire. Physical Review B, 2019, 100, .	3.2	4
95	Comment on "Relevance of Cu- $d^3$ multiplet structure in models of high- $T_c$ cuprates". Physical Review B, 2020, 102, .	3.2	4
96	Comment on "Conductance scaling in Kondo-correlated quantum dots: Role of level asymmetry and charging energy". Physical Review B, 2014, 90, .	3.2	3
97	Magnetic and orbital instabilities in a lattice of SU(4) organometallic Kondo complexes. Journal of Physics: Conference Series, 2014, 568, 052002.	0.4	2
98	Calculation of the four-spin cyclic exchange in cuprates. Physical Review B, 2018, 98, .	3.2	2
99	Magnon-assisted dynamics of a hole doped in a cuprate superconductor. Physical Review B, 2021, 103, .	3.2	2
100	Low-energy physics for an iron phthalocyanine molecule on Au(111). Physical Review B, 2022, 105, .	3.2	2
101	Correlations, quantum entanglement and interference in nanoscopic systems. Journal of Statistical Mechanics: Theory and Experiment, 2010, 2010, P11031.	2.3	0
102	Frontispiece (Phys. Status Solidi B 3/2011). Physica Status Solidi (B): Basic Research, 2011, 248, .	1.5	0
103	Ginzburg-Landau theory for the magnetic and structural transitions in $\text{La}^{1-y}(\text{Ca}^{1-x}\text{Sr}^x)_y\text{MnO}_3$ . Journal of Physics Condensed Matter, 2019, 31, 025804.	1.8	0
104	Magnetic properties of chiral $\text{Eu}^2+$ $\text{P}_2$ . Physical Review B, 2021, 104, .	3.2	0