

# Armando A Aligia

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2225662/publications.pdf>

Version: 2024-02-01

104  
papers

2,419  
citations

201674

27  
h-index

254184

43  
g-index

111  
all docs

111  
docs citations

111  
times ranked

1446  
citing authors

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | Low-energy physics for an iron phthalocyanine molecule on Au(111). Physical Review B, 2022, 105, .   | 3.2  | 2         |
| 2  | 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         |
| 3  | Magnon-assisted dynamics of a hole doped in a cuprate superconductor. Physical Review B, 2021, 103, .  | 3.2  | 2         |
| 4  | Phase diagram of a model for topological superconducting wires. Physical Review B, 2021, 104, .  | 3.2  | 5         |
| 5  | Iron phthalocyanine on Au(111) is a non-Landau-Fermi liquid. Nature Communications, 2021, 12, 6027.  | 12.8 | 10        |
| 6  | Magnetic properties of chiral $P_{2 \times 2}$ Physical Review B, 2021, 104, .   | 3.2  | 0         |
| 7  | Comment on the relevance of Cu- $d$ multiplet structure in models of high- $T_c$ cuprates. Physical Review B, 2020, 102, .   | 3.2  | 4         |
| 8  | Tomography of Zero-Energy End Modes in Topological Superconducting Wires. Physical Review Letters, 2020, 125, 256801.  | 7.8  | 8         |
| 9  | Heat current across a capacitively coupled double quantum dot. Physical Review B, 2020, 101, .   | 3.2  | 15        |
| 10 | 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         |
| 11 | Fully compensated Kondo effect for a two-channel spin $S=1$ impurity. Physical Review B, 2019, 100, .  | 3.2  | 13        |
| 12 | Exact analytical solution of a time-reversal-invariant topological superconducting wire. Physical Review B, 2019, 100, .   | 3.2  | 4         |
| 13 | Spin and orbital ordering in bilayer $Sr_3O_7$ . Physical Review B, 2019, 99, .  | 3.2  | 6         |
| 14 | Magnetostriction reveals orthorhombic distortion in tetragonal Gd compounds. Physical Review B, 2019, 99, .  | 3.2  | 7         |
| 15 | Catalog of Andreev spectra and Josephson effects in structures with time-reversal-invariant topological superconductor wires. Physical Review B, 2019, 99, .                       | 3.2  | 13        |
| 16 | Ginzburg-Landau theory for the magnetic and structural transitions in $La_{1-y}(Ca_{1-x}Sr_x)_yMnO_3$ . Journal of Physics Condensed Matter, 2019, 31, 025804.                     | 1.8  | 0         |
| 17 | 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         |
| 18 | Generalized One-Band Model Based on Zhang-Rice Singlets for Tetragonal CuO. Physical Review Letters, 2018, 120, 177001.  | 7.8  | 11        |

|    |   |     |    |
|----|---|-----|----|
| 19 | Leading temperature dependence of the conductance in Kondo-correlated quantum dots. Journal of Physics Condensed Matter, 2018, 30, 155304.  | 1.8 | 5  |
| 20 | Entangled end states with fractionalized spin projection in a time-reversal-invariant topological superconducting wire. Physical Review B, 2018, 98, .  | 3.2 | 16 |
| 21 | 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 |
| 22 | Topological quantum phase transition between Fermi liquid phases in an Anderson impurity model. Physical Review B, 2018, 98, .  | 3.2 | 6  |
| 23 | Calculation of the four-spin cyclic exchange in cuprates. Physical Review B, 2018, 98, .  | 3.2 | 2  |
| 24 | Quantifying the leading role of the surface state in the Kondo effect of Co/Ag(111). Physical Review B, 2018, 97, .   | 3.2 | 14 |
| 25 | 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  |
| 26 | Kondo behavior and conductance through $3d$ impurities in gold chains doped with oxygen. Journal of Chemical Physics, 2017, 146, .  | 3.0 | 7  |
| 27 | Kondo temperature when the Fermi level is near a step in the conduction density of states. Physical Review B, 2017, 95, .   | 3.2 | 6  |
| 28 | Fractional Spin and Josephson Effect in Time-Reversal-Invariant Topological Superconductors. Physical Review Letters, 2017, 119, 046801.  | 7.8 | 30 |
| 29 | Singlet Orbital Ordering in Bilayer $\text{SrO}_7$ Physical Review Letters, 2017, 118, 207207.  | 7.8 | 12 |
| 30 | 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 |
| 31 | Replicas of the Kondo peak due to electron-vibration interaction in molecular transport properties. Physical Review B, 2016, 93, .  | 3.2 | 10 |
| 32 | 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  |
| 33 | Kondo physics in a Ni impurity embedded in O-doped Au chains. Physical Review B, 2015, 92, .  | 3.2 | 7  |
| 34 | Scaling of conductance through quantum dots with magnetic field. Physical Review B, 2015, 92, .   | 3.2 | 8  |
| 35 | 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 |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 37 | Restoring the SU(4) Kondo regime in a double quantum dot system. Journal of Physics Condensed Matter, 2015, 27, 335601.   | 1.8 | 14        |
| 38 | 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        |
| 39 | Nonequilibrium self-energies, Ng approach, and heat current of a nanodevice for small bias voltage and temperature. Physical Review B, 2014, 89, .  | 3.2 | 20        |
| 40 | Spectral evolution of the SU(4) Kondo effect from the single impurity to the two-dimensional limit. Physical Review B, 2014, 89, .  | 3.2 | 17        |
| 41 | Comment on "Conductance scaling in Kondo-correlated quantum dots: Role of level asymmetry and charging energy". Physical Review B, 2014, 90, .  | 3.2 | 3         |
| 42 | Magnetic and orbital instabilities in a lattice of SU(4) organometallic Kondo complexes. Journal of Physics: Conference Series, 2014, 568, 052002.  | 0.4 | 2         |
| 43 | Non-Fermi-Liquid Behavior in Transport Through Co-Doped Au Chains. Physical Review Letters, 2013, 110, 196402.  | 7.8 | 16        |
| 44 | Unusual Kondo Physics in a Co Impurity Atom Embedded in Noble-Metal Chains. IEEE Transactions on Magnetics, 2013, 49, 4683-4686.  | 2.1 | 6         |
| 45 | 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        |
| 46 | Effect of covalency and interactions on the trigonal splitting in NaxCoO2. Physical Review B, 2013, 88, .   | 3.2 | 9         |
| 47 | Orbital Kondo effect in V-doped $\text{CrSe}_2$ . Physical Review B, 2013, 88, .  | 3.2 | 9         |
| 48 | Orbital Kondo spectroscopy in a double quantum dot system. Physical Review B, 2013, 88, .   | 3.2 | 24        |
| 49 | Nonequilibrium transport through magnetic vibrating molecules. Physical Review B, 2013, 87, .   | 3.2 | 23        |
| 50 | Nonequilibrium conductance of a nanodevice for small bias voltage. Journal of Physics Condensed Matter, 2012, 24, 015306.   | 1.8 | 30        |
| 51 | Non-equilibrium conductance through a benzene molecule in the Kondo regime. Journal of Physics Condensed Matter, 2012, 24, 365301.  | 1.8 | 19        |
| 52 | Thermopower of an SU(4) Kondo resonance under an SU(2) symmetry-breaking field. Physical Review B, 2012, 86, .  | 3.2 | 30        |
| 53 | Universal transport signatures in two-electron molecular quantum dots: gate-tunable Hund's rule, underscreened Kondo effect and quantum phase transitions. Journal of Physics Condensed Matter, 2011, 23, 243202. | 1.8 | 59        |
| 54 | Quantum transport through a stretched spin-1 molecule. Europhysics Letters, 2011, 93, 47005.  | 2.0 | 27        |

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 55 | 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         |
| 56 | Frontispiece (Phys. Status Solidi B 3/2011). Physica Status Solidi (B): Basic Research, 2011, 248, .  | 1.5  | 0         |
| 57 | Interplay between quantum interference and Kondo effects in nonequilibrium transport through nanoscopic systems. Physical Review B, 2011, 84, .               | 3.2  | 22        |
| 58 | Mechanical Control of Spin States in Spin-1 Molecules and the Underscreened Kondo Effect. Science, 2010, 328, 1370-1373.                                      | 12.6 | 399       |
| 59 | Effective Hamiltonian for transition-metal compounds: Application to $\text{Na} \times \text{Na} \times \text{Na}$ Physical Review B, 2010, 81, .             | 3.2  | 18        |
| 60 | Correlations, quantum entanglement and interference in nanoscopic systems. Journal of Statistical Mechanics: Theory and Experiment, 2010, 2010, P11031.       | 2.3  | 0         |
| 61 | Nonequilibrium dynamics of a singlet-triplet Anderson impurity near the quantum phase transition. Journal of Physics Condensed Matter, 2010, 22, 025602.      | 1.8  | 37        |
| 62 | Nonequilibrium transport through a singlet-triplet Anderson impurity. Physical Review B, 2009, 80, .  | 3.2  | 33        |
| 63 | Features of spin-charge separation in the equilibrium conductance through finite rings. Physical Review B, 2009, 79, .  | 3.2  | 19        |
| 64 | Dynamical Mean Field Theory of an Effective Three-Band Model for $\text{Na}_x\text{CoO}_2$ . Physical Review Letters, 2009, 102, 066402.                      | 7.8  | 18        |
| 65 | Thermal transport in one-dimensional spin heterostructures. Physical Review B, 2009, 80, .  | 3.2  | 38        |
| 66 | Universal scaling in nonequilibrium transport through an Anderson impurity. Physical Review B, 2009, 79, .  | 3.2  | 26        |
| 67 | Photoluminescence of a Quantum Dot Hybridized with a Continuum of Extended States. Physical Review Letters, 2009, 103, 156802.                                | 7.8  | 6         |
| 68 | Quantum Interference in Coherent Molecular Conductance. Physical Review Letters, 2009, 103, 266807.   | 7.8  | 42        |
| 69 | Effects of Interactions in Transport through Aharonov-Bohm-Casher Interferometers. Physical Review Letters, 2008, 100, 016803.                                | 7.8  | 46        |
| 70 | Electronic structure and Fermi-surface topology of $\text{Na}_x\text{CoO}_2$ . Physical Review B, 2007, 75, .   | 3.2  | 17        |
| 71 | Spectral density of an interacting dot coupled indirectly to conducting leads. Physical Review B, 2007, 76, .   | 3.2  | 32        |
| 72 | 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        |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 73 | Incommensurability and Unconventional Superconductor to Insulator Transition in the Hubbard Model with Bond-Charge Interaction. Physical Review Letters, 2007, 99, 206401. | 7.8 | 32        |
| 74 | Nonequilibrium magnetotransport through a quantum dot: An interpolative perturbative approach. Physical Review B, 2006, 74, .  | 3.2 | 44        |
| 75 | 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        |
| 76 | Conductance through an array of quantum dots. Physical Review B, 2006, 74, .   | 3.2 | 34        |
| 77 | Effective Kondo Model for a Trimer on a Metallic Surface. Physical Review Letters, 2006, 96, 096804.   | 7.8 | 26        |
| 78 | Mirages and many-body effects in quantum corrals. Journal of Physics Condensed Matter, 2005, 17, S1095-S1122.  | 1.8 | 49        |
| 79 | Detection of Topological Transitions by Transport Through Molecules and Nanodevices. Physical Review Letters, 2004, 93, 076801.  | 7.8 | 28        |
| 80 | Magnetotransport through a quantum wire side coupled to a quantum dot. Physical Review B, 2004, 70, .  | 3.2 | 47        |
| 81 | Magnetic and orbital ordering of $\text{RuO}_2$ planes in $\text{RuSr}_2(\text{Eu,Gd})\text{Cu}_2\text{O}_8$ . Physical Review B, 2004, 70, .                              | 3.2 | 15        |
| 82 | Charge dynamics in the Mott insulating phase of the ionic Hubbard model. Physical Review B, 2004, 69, .  | 3.2 | 24        |
| 83 | Persistent currents in mesoscopic rings with a quantum dot. Physical Review B, 2002, 66, .   | 3.2 | 27        |
| 84 | Kondo and anti-Kondo resonances in transport through nanoscale devices. Physical Review B, 2002, 65, .   | 3.2 | 45        |
| 85 | Many-body theory of the quantum mirage. Physical Review B, 2001, 64, .   | 3.2 | 40        |
| 86 | Phase diagrams from topological transitions: The Hubbard chain with correlated hopping. Physical Review B, 2000, 61, 7883-7886.  | 3.2 | 40        |
| 87 | Angle-resolved Cu and O photoemission intensities in $\text{CuO}_2$ planes. Physical Review B, 1999, 59, 14092-14098.  | 3.2 | 12        |
| 88 | $d_{x^2-y^2}$ superconductivity in a generalized Hubbard model. Physical Review B, 1999, 59, 1333-1338.  | 3.2 | 27        |
| 89 | Spin dynamics of hole-doped $\text{Y}_2\text{BaNiO}_5$ . Europhysics Letters, 1998, 43, 71-76.   | 2.0 | 21        |
| 90 | Low-Energy Physics of Hole Doped $\text{Y}_2\text{BaNiO}_5$ . Physical Review Letters, 1998, 81, 4027-4027.  | 7.8 | 9         |

| #   | ARTICLE   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 91  | Superconductivity and incommensurate spin fluctuations in a generalized t-J model for the cuprates. Europhysics Letters, 1997, 38, 147-152.   | 2.0 | 20        |
| 92  | Intrasublattice Hopping and $T_{cmax}$ in the Cuprates. Physical Review Letters, 1997, 79, 3793-3793.   | 7.8 | 8         |
| 93  | Optical properties of an effective one-band Hubbard model for the cuprates. Physical Review B, 1997, 56, 5637-5647.   | 3.2 | 37        |
| 94  | Quasiparticle photoemission intensity in doped two-dimensional quantum antiferromagnets. Physical Review B, 1997, 55, 14092-14095.  | 3.2 | 18        |
| 95  | Excitons in insulating cuprates. Physical Review B, 1996, 54, R3780-R3783.  | 3.2 | 41        |
| 96  | Ground state and magnetic susceptibility of intermediate-valence Tm impurities. Physical Review B, 1995, 52, 7987-7993.   | 3.2 | 12        |
| 97  | Systematic derivation of a generalized t-J model. Physical Review B, 1994, 49, 13061-13064.   | 3.2 | 34        |
| 98  | Effective Hamiltonian for cuprate superconductors. Physical Review B, 1993, 47, 8929-8935.  | 3.2 | 42        |
| 99  | Validity of the t-J model. Physical Review B, 1993, 48, 4212-4215.  | 3.2 | 30        |
| 100 | Brinkman-Rice transition in layered perovskites. Physical Review B, 1993, 48, 7471-7477.  | 3.2 | 69        |
| 101 | The Ground State of Dilute Tm Systems is Degenerate. Europhysics Letters, 1990, 13, 739-744.  | 2.0 | 5         |
| 102 | Integrability of a general model for intermediate valence. Physical Review B, 1986, 33, 6476-6487.  | 3.2 | 40        |
| 103 | Bethe-ansatz solution of a model for a mixed valent impurity with two magnetic configurations: II. Numerical solution of the thermodynamic equations. European Physical Journal B, 1986, 62, 311-317. | 1.5 | 15        |
| 104 | Bethe ansatz solution of a model for valence fluctuations between two magnetic configurations. Physical Review B, 1985, 31, 6143-6145.  | 3.2 | 20        |