Aires Ferreira

List of Publications by Year in descending order

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AIDES FEDDEIDA

| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Optomechanical Entanglement between a Movable Mirror and a Cavity Field. Physical Review Letters, 2007, 98, 030405. | 2.9 | 888 |
| 2 | A PRIMER ON SURFACE PLASMON-POLARITONS IN GRAPHENE. International Journal of Modern Physics B, 2013, 27, 1341001. | 1.0 | 325 |
| 3 | Giant spin Hall effect in graphene grown by chemical vapour deposition. Nature Communications, 2014, 5, 4748. | 5.8 | 179 |
| 4 | Unified description of the dc conductivity of monolayer and bilayer graphene at finite densities based on resonant scatterers. Physical Review B, 2011, 83, . | 1.1 | 152 |
| 5 | Graphene-based photodetector with two cavities. Physical Review B, 2012, 85, . | 1.1 | 142 |
| 6 | Faraday effect in graphene enclosed in an optical cavity and the equation of motion method for the study of magneto-optical transport in solids. Physical Review B, 2011, 84, . | 1.1 | 125 |
| 7 | Extrinsic Spin Hall Effect Induced by Resonant Skew Scattering in Graphene. Physical Review Letters, 2014, 112, 066601. | 2.9 | 105 |
| 8 | Optimal Charge-to-Spin Conversion in Graphene on Transition-Metal Dichalcogenides. Physical Review Letters, 2017, 119, 196801. | 2.9 | 99 |
| 9 | Critical Delocalization of Chiral Zero Energy Modes in Graphene. Physical Review Letters, 2015, 115, 106601. | 2.9 | 97 |
| 10 | Complete light absorption in graphene-metamaterial corrugated structures. Physical Review B, 2012, 86, . | 1.1 | 80 |
| 11 | Macroscopic Thermal Entanglement Due to Radiation Pressure. Physical Review Letters, 2006, 96, 060407. | 2.9 | 70 |
| 12 | Transport properties of graphene with one-dimensional charge defects. Europhysics Letters, 2011, 94, 28003. | 0.7 | 63 |
| 13 | Confined magneto-optical waves in graphene. Physical Review B, 2012, 85, . | 1.1 | 54 |
| 14 | Gate-Tunable Reversible Rashba–Edelstein Effect in a Few-Layer Graphene/2H-TaS ₂ Heterostructure at Room Temperature. ACS Nano, 2020, 14, 5251-5259. | 7.3 | 50 |
| 15 | Scattering theory of spin-orbit active adatoms on graphene. Physical Review B, 2014, 90, . | 1.1 | 48 |
| 16 | Covariant Conservation Laws and the Spin Hall Effect in Dirac-Rashba Systems. Physical Review Letters, 2017, 119, 246801. | 2.9 | 46 |
| 17 | Microscopic theory of spin relaxation anisotropy in graphene with proximity-induced spin-orbit coupling. Physical Review B, 2018, 98, . | 1.1 | 43 |
| 18 | Effect of charged line defects on conductivity in graphene: Numerical Kubo and analytical Boltzmann approaches. Physical Review B, 2013, 87, . | 1.1 | 37 |

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|----|--|-----|-----------|
| 19 | Exact solution for square-wave grating covered with graphene: surface plasmon-polaritons in the terahertz range. Journal of Physics Condensed Matter, 2013, 25, 125303. | 0.7 | 33 |
| 20 | Anomalous Hall Effect in 2D Dirac Materials. Physical Review Letters, 2018, 121, 126802. | 2.9 | 33 |
| 21 | KITE: high-performance accurate modelling of electronic structure and response functions of large molecules, disordered crystals and heterostructures. Royal Society Open Science, 2020, 7, 191809. | 1.1 | 30 |
| 22 | Quantum diagrammatic theory of the extrinsic spin Hall effect in graphene. Physical Review B, 2016, 94, | 1.1 | 29 |
| 23 | Crystal-field effects in graphene with interface-induced spin-orbit coupling. Physical Review B, 2018, 98, . | 1.1 | 22 |
| 24 | Light scattering by a medium with a spatially modulated optical conductivity: the case of graphene. Journal of Physics Condensed Matter, 2012, 24, 245303. | 0.7 | 20 |
| 25 | Electrically tunable resonant scattering in fluorinated bilayer graphene. Physical Review B, 2015, 92, . | 1.1 | 20 |
| 26 | Skew-scattering-induced giant antidamping spin-orbit torques: Collinear and out-of-plane Edelstein effects at two-dimensional material/ferromagnet interfaces. Physical Review Research, 2020, 2, . | 1.3 | 19 |
| 27 | Impact of complex adatom-induced interactions on quantum spin Hall phases. Physical Review B, 2018, 98, . | 1.1 | 17 |
| 28 | Numerical calculation of the Casimir-Polder interaction between a graphene sheet with vacancies and an atom. Physical Review B, 2016, 94, . | 1.1 | 15 |
| 29 | Analytic results on long-distance entanglement mediated by gapped spin chains. Physical Review A, 2008, 77, . | 1.0 | 14 |
| 30 | Crossover to the anomalous quantum regime in the extrinsic spin Hall effect of graphene. Physical Review B, 2016, 94, . | 1.1 | 14 |
| 31 | Proposal for Unambiguous Electrical Detection of Spin-Charge Conversion in Lateral Spin Valves. Physical Review Letters, 2020, 124, 236803. | 2.9 | 14 |
| 32 | Direct Visualization of Native Defects in Graphite and Their Effect on the Electronic Properties of Bernal-Stacked Bilayer Graphene. Nano Letters, 2021, 21, 7100-7108. | 4.5 | 13 |
| 33 | Efficient Multiscale Lattice Simulations of Strained and Disordered Graphene. Semiconductors and Semimetals, 2016, , 35-99. | 0.4 | 12 |
| 34 | Breakdown of universality in three-dimensional Dirac semimetals with random impurities. Physical Review Research, 2021, 3, . | 1.3 | 11 |
| 35 | Plasmon-Induced Hot Carriers from Interband and Intraband Transitions in Large Noble Metal Nanoparticles. , 2022, 1, . | | 11 |
| 36 | Microscopic Linear Response Theory of Spin Relaxation and Relativistic Transport Phenomena in Graphene. Condensed Matter, 2018, 3, 18. | 0.8 | 9 |

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|----|--|-----|-----------|
| 37 | Magnetic oscillation of optical phonon in ABA- and ABC-stacked trilayer graphene. Physical Review B, 2015, 91, . | 1.1 | 8 |
| 38 | Production of bright entangled photons from moving optical boundaries. Physical Review A, 2011, 83, . | 1.0 | 7 |
| 39 | Theory of spin injection in two-dimensional metals with proximity-induced spin-orbit coupling. Physical Review B, 2019, 100, . | 1.1 | 5 |
| 40 | Effect of proximity-induced spin-orbit coupling in graphene mesoscopic billiards. Physical Review B, 2021, 103, . | 1.1 | 4 |
| 41 | Theory of spin–charge-coupled transport in proximitized graphene: an SO(5) algebraic approach. JPhys Materials, 2021, 4, 045006. | 1.8 | 4 |
| 42 | Emergence of robust gaps in two-dimensional antiferromagnets via additional spin-1/2 probes. Physical Review A, 2010, 82, . | 1.0 | 3 |
| 43 | Shubnikov–de Haas oscillations in the anomalous Hall conductivity of Chern insulators. Physical Review B, 2018, 98, . | 1.1 | 3 |
| 44 | Spin Hall and inverse spin galvanic effects in graphene with strong interfacial spin-orbit coupling: A quasi-classical Green's function approach. Physical Review Research, 2021, 3, . | 1.3 | 3 |
| 45 | Graphene-based nanostructures: Plasmonics in the THz range. , 2015, , . | | 0 |