

Juan Carlos Cuevas

List of Publications by Year in descending order

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153
papers

10,817
citations

26630

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31849

101
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161
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161
docs citations

161
times ranked

7061
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Extracting transport channel transmissions in scanning tunneling microscopy using superconducting excess current. <i>Physical Review B</i> , 2022, 105, . | 3.2 | 4 |
| 2 | Theory of drift-enabled control in nonlocal magnon transport. <i>Journal of Physics Condensed Matter</i> , 2022, 34, 295801. | 1.8 | 3 |
| 3 | Superconducting quantum interference at the atomic scale. <i>Nature Physics</i> , 2022, 18, 893-898. | 16.7 | 10 |
| 4 | Ground-state quantum geometry in superconductorâ€“quantum dot chains. <i>Physical Review B</i> , 2021, 103, . | 3.2 | 18 |
| 5 | Near-field radiative heat transfer between one-dimensional magnetophotonic crystals. <i>Physical Review B</i> , 2021, 103, . | 3.2 | 17 |
| 6 | Normal-Metalâ€“Superconductor Near-Field Thermal Diodes and Transistors. <i>Physical Review Applied</i> , 2021, 15, . | 3.8 | 24 |
| 7 | Tunneling processes between Yu-Shiba-Rusinov bound states. <i>Physical Review B</i> , 2021, 103, . | 3.2 | 9 |
| 8 | Observation of Yuâ€“Shibaâ€“Rusinov States in Superconducting Graphene. <i>Advanced Materials</i> , 2021, 33, e2008113. | 21.0 | 10 |
| 9 | The Role of Metal Ions in the Electron Transport through Azurin-Based Junctions. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 3732. | 2.5 | 6 |
| 10 | Near-field radiative heat transfer in many-body systems. <i>Reviews of Modern Physics</i> , 2021, 93, . | 45.6 | 143 |
| 11 | Spin-dependent tunneling between individual superconducting bound states. <i>Physical Review Research</i> , 2021, 3, . | 3.6 | 16 |
| 12 | Can Electron Transport through a Blue-Copper Azurin Be Coherent? An Ab Initio Study. <i>Journal of Physical Chemistry C</i> , 2021, 125, 1693-1702. | 3.1 | 25 |
| 13 | Deep Learning for the Modeling and Inverse Design of Radiative Heat Transfer. <i>Physical Review Applied</i> , 2021, 16, . | 3.8 | 20 |
| 14 | Quantum phase transitions and the role of impurity-substrate hybridization in Yu-Shiba-Rusinov states. <i>Communications Physics</i> , 2020, 3, . | 5.3 | 27 |
| 15 | Mechanical relations between conductive and radiative heat transfer. <i>Physical Review B</i> , 2020, 102, . | 3.2 | 2 |
| 16 | Tunnelling dynamics between superconducting bound states at the atomic limit. <i>Nature Physics</i> , 2020, 16, 1227-1231. | 16.7 | 42 |
| 17 | Single channel Josephson effect in a high transmission atomic contact. <i>Communications Physics</i> , 2020, 3, . | 5.3 | 7 |
| 18 | Backbone charge transport in double-stranded DNA. <i>Nature Nanotechnology</i> , 2020, 15, 836-840. | 31.5 | 46 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 19 | Channel-based algebraic limits to conductive heat transfer. <i>Physical Review B</i> , 2020, 102, . | 3.2 | 2 |
| 20 | Microwave Spectroscopy Reveals the Quantum Geometric Tensor of Topological Josephson Matter. <i>Physical Review Letters</i> , 2020, 124, 197002. | 7.8 | 51 |
| 21 | Interplay between Yu-Shiba-Rusinov states and multiple Andreev reflections. <i>Physical Review B</i> , 2020, 101, . | 3.2 | 14 |
| 22 | Magnetic field effects in the near-field radiative heat transfer between planar structures. <i>Physical Review B</i> , 2020, 101, . | 3.2 | 28 |
| 23 | Microwave-assisted tunneling and interference effects in superconducting junctions under fast driving signals. <i>Physical Review B</i> , 2020, 101, . | 3.2 | 27 |
| 24 | Dynamical Coulomb Blockade as a Local Probe for Quantum Transport. <i>Physical Review Letters</i> , 2020, 124, 156803. | 7.8 | 11 |
| 25 | InnenÃ¼cktitelbild: A Solidâ€State Protein Junction Serves as a Biasâ€Induced Current Switch (Angew.) Tj ETQq1 1 0.784314 rgBT / Qv | 2.0 | 1 |
| 26 | Thermal radiation from subwavelength objects and the violation of Planckâ€™s law. <i>Nature Communications</i> , 2019, 10, 3342. | 12.8 | 15 |
| 27 | A Solidâ€State Protein Junction Serves as a Biasâ€Induced Current Switch. <i>Angewandte Chemie</i> , 2019, 131, 11978-11985. | 2.0 | 1 |
| 28 | Tuning Structure and Dynamics of Blue Copper Azurin Junctions via Single Amino-Acid Mutations. <i>Biomolecules</i> , 2019, 9, 611. | 4.0 | 16 |
| 29 | Mechanical Deformation and Electronic Structure of a Blue Copper Azurin in a Solid-State Junction. <i>Biomolecules</i> , 2019, 9, 506. | 4.0 | 16 |
| 30 | A Solidâ€State Protein Junction Serves as a Biasâ€Induced Current Switch. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 11852-11859. | 13.8 | 26 |
| 31 | Doping hepta-alanine with tryptophan: A theoretical study of its effect on the electrical conductance of peptide-based single-molecule junctions. <i>Journal of Chemical Physics</i> , 2019, 150, 174705. | 3.0 | 10 |
| 32 | Charge-Transport Mechanisms in Azurin-Based Monolayer Junctions. <i>Journal of Physical Chemistry C</i> , 2019, 123, 5907-5922. | 3.1 | 33 |
| 33 | Local density of states in clean two-dimensional superconductorâ€normal metalâ€superconductor heterostructures. <i>Physical Review Research</i> , 2019, 1, . | 3.6 | 2 |
| 34 | Magnetic-field controlled anomalous refraction in doped semiconductors. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2019, 36, 935. | 2.1 | 6 |
| 35 | Transmission eigenchannels for coherent phonon transport. <i>Physical Review B</i> , 2018, 97, . | 3.2 | 16 |
| 36 | Electron Transport Through Homopeptides: Are They Really Good Conductors?. <i>ACS Omega</i> , 2018, 3, 3778-3785. | 3.5 | 26 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 37 | Peltier cooling in molecular junctions. <i>Nature Nanotechnology</i> , 2018, 13, 122-127. | 31.5 | 120 |
| 38 | Anisotropic Thermal Magnetoresistance for an Active Control of Radiative Heat Transfer. <i>ACS Photonics</i> , 2018, 5, 705-710. | 6.6 | 80 |
| 39 | Super-Planckian far-field radiative heat transfer. <i>Physical Review B</i> , 2018, 97, . | 3.2 | 36 |
| 40 | Tunneling explains efficient electron transport via protein junctions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E4577-E4583. | 7.1 | 81 |
| 41 | <i>Ab initio</i> electronic structure calculations of entire blue copper azurins. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 30392-30402. | 2.8 | 19 |
| 42 | Radiative Heat Transfer. <i>ACS Photonics</i> , 2018, 5, 3896-3915. | 6.6 | 163 |
| 43 | Exploring the Limits of Super-Planckian Far-Field Radiative Heat Transfer Using 2D Materials. <i>ACS Photonics</i> , 2018, 5, 3082-3088. | 6.6 | 18 |
| 44 | Quantized thermal transport in single-atom junctions. <i>Science</i> , 2017, 355, 1192-1195. | 12.6 | 165 |
| 45 | Study of radiative heat transfer in Å...ngstrÅm- and nanometre-sized gaps. <i>Nature Communications</i> , 2017, 8, . | 12.8 | 117 |
| 46 | Bioengineering a Single-Protein Junction. <i>Journal of the American Chemical Society</i> , 2017, 139, 15337-15346. | 13.7 | 84 |
| 47 | Thermal discrete dipole approximation for the description of thermal emission and radiative heat transfer of magneto-optical systems. <i>Physical Review B</i> , 2017, 95, . | 3.2 | 57 |
| 48 | Thermal conductance of metallic atomic-size contacts: Phonon transport and Wiedemann-Franz law. <i>Physical Review B</i> , 2017, 96, . | 3.2 | 23 |
| 49 | Thermal conductance and thermoelectric figure of merit of C_{60} -based single-molecule junctions: Electrons, phonons, and photons. <i>Physical Review B</i> , 2017, 95, . | 3.2 | 36 |
| 50 | Enhancing Near-Field Radiative Heat Transfer with Si-based Metasurfaces. <i>Physical Review Letters</i> , 2017, 118, 203901. | 7.8 | 107 |
| 51 | Tuning the thermal conductance of molecular junctions with interference effects. <i>Physical Review B</i> , 2017, 96, . | 3.2 | 31 |
| 52 | Proximity Effect A New Insight from In Situ Fabricated Hybrid Nanostructures. , 2017, , . | | 0 |
| 53 | Length dependence of the thermal conductance of alkane-based single-molecule junctions: An <i>ab initio</i> study. <i>Physical Review B</i> , 2016, 94, . | 3.2 | 40 |
| 54 | Orbital origin of the electrical conduction in ferromagnetic atomic-size contacts: Insights from shot noise measurements and theoretical simulations. <i>Physical Review B</i> , 2016, 93, . | 3.2 | 28 |

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|----|---|------|-----------|
| 55 | Radiative heat transfer across nanometer-size gaps. , 2016, , . | | 0 |
| 56 | Hybrid Magnetoplasmonic Crystals Boost the Performance of Nanohole Arrays as Plasmonic Sensors. ACS Photonics, 2016, 3, 203-208. | 6.6 | 127 |
| 57 | Theoretical study of carbon-based tips for scanning tunnelling microscopy. Nanotechnology, 2016, 27, 105201. | 2.6 | 19 |
| 58 | Magnetic field control of near-field radiative heat transfer and the realization of highly tunable hyperbolic thermal emitters. Physical Review B, 2015, 92, . | 3.2 | 123 |
| 59 | Single-molecule conductance of a chemically modified, Ñ-extension tetrathiafulvalene and its charge-transfer complex with F ₄ TCNQ. Beilstein Journal of Organic Chemistry, 2015, 11, 1068-1078. | 2.2 | 29 |
| 60 | The environment does the trick. Nature Nanotechnology, 2015, 10, 486-487. | 31.5 | 0 |
| 61 | Radiative heat transfer in the extreme near field. Nature, 2015, 528, 387-391. | 27.8 | 332 |
| 62 | Quantum Thermopower of Metallic Atomic-Size Contacts at Room Temperature. Nano Letters, 2015, 15, 1006-1011. | 9.1 | 39 |
| 63 | Enhancement of near-field radiative heat transfer using polar dielectric thin films. Nature Nanotechnology, 2015, 10, 253-258. | 31.5 | 237 |
| 64 | Direct observation of Josephson vortex cores. Nature Physics, 2015, 11, 332-337. | 16.7 | 119 |
| 65 | Current rectification in a single molecule diode: the role of electrode coupling. Nanotechnology, 2015, 26, 291001. | 2.6 | 51 |
| 66 | Faraday effect in hybrid magneto-plasmonic photonic crystals. Optics Express, 2015, 23, 22238. | 3.4 | 38 |
| 67 | Resonant Enhancement of Magneto-Optical Activity Induced by Surface Plasmon Polariton Modes Coupling in 2D Magnetoplasmonic Crystals. ACS Photonics, 2015, 2, 1769-1779. | 6.6 | 69 |
| 68 | Observation of a hole-size-dependent energy shift of the surface-plasmon resonance in Ni antidot thin films. Applied Physics Letters, 2015, 106, . | 3.3 | 14 |
| 69 | Proximity Effect between Two Superconductors Spatially Resolved by Scanning Tunneling Spectroscopy. Physical Review X, 2014, 4, . | 8.9 | 45 |
| 70 | Shot noise variation within ensembles of gold atomic break junctions at room temperature. Journal of Physics Condensed Matter, 2014, 26, 474204. | 1.8 | 12 |
| 71 | Heat dissipation and its relation to thermopower in single-molecule junctions. New Journal of Physics, 2014, 16, 015004. | 2.9 | 88 |
| 72 | Carbon tips for all-carbon single-molecule electronics. Nanoscale, 2014, 6, 6953-6958. | 5.6 | 10 |

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| 73 | Long-range charge transport in single G-quadruplex DNA molecules. <i>Nature Nanotechnology</i> , 2014, 9, 1040-1046. | 31.5 | 218 |
| 74 | Extraordinary transverse magneto-optical Kerr effect in a superlens. <i>Physical Review B</i> , 2014, 90, . | 3.2 | 9 |
| 75 | A Molecular Platinum Cluster Junction: A Single-Molecule Switch. <i>Journal of the American Chemical Society</i> , 2013, 135, 2052-2055. | 13.7 | 29 |
| 76 | Plasmon-Induced Conductance Enhancement in Single-Molecule Junctions. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 2811-2816. | 4.6 | 58 |
| 77 | A current-driven single-atom memory. <i>Nature Nanotechnology</i> , 2013, 8, 645-648. | 31.5 | 119 |
| 78 | Scanning Tunneling Spectroscopy Study of the Proximity Effect in a Disordered Two-Dimensional Metal. <i>Physical Review Letters</i> , 2013, 110, 157003. | 7.8 | 64 |
| 79 | Heat dissipation in atomic-scale junctions. <i>Nature</i> , 2013, 498, 209-212. | 27.8 | 219 |
| 80 | Influence of the magnetic field on the plasmonic properties of transparent Ni anti-dot arrays. <i>Applied Physics Letters</i> , 2012, 101, 063107. | 3.3 | 22 |
| 81 | Geometry-related magnetic interference patterns in long S - N - S Josephson junctions. <i>Physical Review B</i> , 2012, 86, . | 3.2 | 34 |
| 82 | Carbon-fiber tips for scanning probe microscopes and molecular electronics experiments. <i>Nanoscale Research Letters</i> , 2012, 7, 254. | 5.7 | 4 |
| 83 | Theoretical study of the charge transport through C_{60} -based single-molecule junctions. <i>Physical Review B</i> , 2012, 85, . | 3.2 | 51 |
| 84 | Generalized scattering-matrix approach for magneto-optics in periodically patterned multilayer systems. <i>Physical Review B</i> , 2012, 85, . | 3.2 | 59 |
| 85 | Supercurrent and Andreev bound state dynamics in superconducting quantum point contacts under microwave irradiation. <i>Physical Review B</i> , 2011, 84, . | 3.2 | 24 |
| 86 | Single-Molecule Junctions Based on Nitrile-Terminated Biphenyls: A Promising New Anchoring Group. <i>Journal of the American Chemical Society</i> , 2011, 133, 184-187. | 13.7 | 212 |
| 87 | Field enhancement in subnanometer metallic gaps. <i>Physical Review B</i> , 2011, 83, . | 3.2 | 48 |
| 88 | Molecular dynamics study of the thermopower of Ag, Au, and Pt nanocontacts. <i>Physical Review B</i> , 2011, 84, . | 3.2 | 41 |
| 89 | Carbon tips as electrodes for single-molecule junctions. <i>Applied Physics Letters</i> , 2011, 99, 123105. | 3.3 | 8 |
| 90 | Electronic transport through single noble gas atoms. <i>Physical Review B</i> , 2011, 84, . | 3.2 | 2 |

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| 91 | Linear ac response of diffusive SNS junctions. <i>Physical Review B</i> , 2011, 83, . | 3.2 | 22 |
| 92 | Plasmons in nanoscale metal junctions: optical rectification and thermometry. , 2011, , . | | 2 |
| 93 | Revealing the Role of Anchoring Groups in the Electrical Conduction Through Single-Molecule Junctions. <i>Small</i> , 2010, 6, 1529-1535. | 10.0 | 200 |
| 94 | Optical rectification and field enhancement in a plasmonic nanogap. <i>Nature Nanotechnology</i> , 2010, 5, 732-736. | 31.5 | 348 |
| 95 | Theory of Microwave-Assisted Supercurrent in Quantum Point Contacts. <i>Physical Review Letters</i> , 2010, 105, 117001. | 7.8 | 37 |
| 96 | Theory of Microwave-Assisted Supercurrent in Diffusive SNS Junctions. <i>Physical Review Letters</i> , 2010, 104, 247003. | 7.8 | 28 |
| 97 | Theory of anisotropic magnetoresistance in atomic-sized ferromagnetic metal contacts. <i>Physical Review B</i> , 2009, 79, . | 3.2 | 21 |
| 98 | Metallic properties of magnesium point contacts. <i>New Journal of Physics</i> , 2009, 11, 073043. | 2.9 | 7 |
| 99 | The Vortex State and Josephson Critical Current of a Diffusive SNS Junction. <i>Journal of Low Temperature Physics</i> , 2008, 153, 304-324. | 1.4 | 47 |
| 100 | Density-functional study of tilt-angle and temperature-dependent conductance in biphenyl dithiol single-molecule junctions. <i>Physical Review B</i> , 2008, 77, . | 3.2 | 91 |
| 101 | Modeling elastic and photoassisted transport in organic molecular wires: Length dependence and current-voltage characteristics. <i>Physical Review B</i> , 2008, 77, . | 3.2 | 58 |
| 102 | Cluster-based density-functional approach to quantum transport through molecular and atomic contacts. <i>New Journal of Physics</i> , 2008, 10, 125019. | 2.9 | 82 |
| 103 | Proximity dc squids in the long-junction limit. <i>Physical Review B</i> , 2008, 77, . | 3.2 | 87 |
| 104 | Length-dependent conductance and thermopower in single-molecule junctions of dithiolated oligophenylene derivatives: A density functional study. <i>Physical Review B</i> , 2008, 78, . | 3.2 | 112 |
| 105 | Highly Conductive Molecular Junctions Based on Direct Binding of Benzene to Platinum Electrodes. <i>Physical Review Letters</i> , 2008, 101, 046801. | 7.8 | 287 |
| 106 | Theoretical study of the conductance of ferromagnetic atomic-sized contacts. <i>Physical Review B</i> , 2008, 77, . | 3.2 | 42 |
| 107 | Role of electronic structure in photoassisted transport through atomic-sized contacts. <i>Physical Review B</i> , 2007, 75, . | 3.2 | 38 |
| 108 | Voltage-induced Shapiro steps in a superconducting multiterminal structure. <i>Physical Review B</i> , 2007, 75, . | 3.2 | 31 |

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| 109 | Even-Odd Effect in Andreev Transport through a Carbon Nanotube Quantum Dot. <i>Physical Review Letters</i> , 2007, 99, 126602. | 7.8 | 127 |
| 110 | Magnetic Interference Patterns and Vortices in Diffusive SNS Junctions. <i>Physical Review Letters</i> , 2007, 99, 217002. | 7.8 | 81 |
| 111 | Crossover from Josephson to Multiple Andreev Reflection Currents in Atomic Contacts. <i>Physical Review Letters</i> , 2007, 99, 067008. | 7.8 | 20 |
| 112 | <i>Ab initio</i> study of charge transport through single oxygen molecules in atomic aluminum contacts. <i>Physical Review B</i> , 2007, 76, . | 3.2 | 15 |
| 113 | Photoconductance of organic single-molecule contacts. <i>Physical Review B</i> , 2007, 76, . | 3.2 | 37 |
| 114 | Density of states and supercurrent in diffusive SNS junctions: Roles of nonideal interfaces and spin-flip scattering. <i>Physical Review B</i> , 2007, 76, . | 3.2 | 77 |
| 115 | Symmetries of Pairing Correlations in Superconductor-Ferromagnet Nanostructures. <i>Journal of Low Temperature Physics</i> , 2007, 147, 457-476. | 1.4 | 176 |
| 116 | Subharmonic gap structure in short ballistic graphene junctions. <i>Physical Review B</i> , 2006, 74, . | 3.2 | 45 |
| 117 | Theoretical analysis of the conductance histograms and structural properties of Ag, Pt, and Ni nanocontacts. <i>Physical Review B</i> , 2006, 74, . | 3.2 | 95 |
| 118 | Subgap structure in asymmetric superconducting tunnel junctions. <i>Physical Review B</i> , 2006, 74, . | 3.2 | 42 |
| 119 | Proximity effect and multiple Andreev reflections in diffusive superconductor-normal-metal-superconductor junctions. <i>Physical Review B</i> , 2006, 73, . | 3.2 | 73 |
| 120 | Correlation between transport properties and atomic configuration of atomic contacts of zinc by low-temperature measurements. <i>Physical Review B</i> , 2006, 74, . | 3.2 | 14 |
| 121 | Dynamical Coulomb Blockade of Multiple Andreev Reflections. <i>Physical Review Letters</i> , 2005, 95, 056804. | 7.8 | 11 |
| 122 | Electron-vibration interaction in transport through atomic gold wires. <i>Physical Review B</i> , 2005, 72, . | 3.2 | 161 |
| 123 | Structure and conductance histogram of atomic-sized Au contacts. <i>Physical Review B</i> , 2005, 72, . | 3.2 | 134 |
| 124 | dc transport in superconducting point contacts: A full-counting-statistics view. <i>Physical Review B</i> , 2004, 70, . | 3.2 | 28 |
| 125 | Conduction channels of one-atom zinc contacts. <i>Physical Review B</i> , 2004, 70, . | 3.2 | 9 |
| 126 | Towards a theory of electrical transport through atomic and molecular junctions. <i>Phase Transitions</i> , 2004, 77, 175-189. | 1.3 | 5 |

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| 127 | Determining the current polarization in Al/Co nanostructured point contacts. Physical Review B, 2004, 69, . | 3.2 | 61 |
| 128 | Transfer-matrix description of heterostructures involving superconductors and ferromagnets. Physical Review B, 2004, 69, . | 3.2 | 57 |
| 129 | Theory of Half-Metal/Superconductor Heterostructures. Physical Review Letters, 2003, 90, 137003. | 7.8 | 331 |
| 130 | Full Counting Statistics of Multiple Andreev Reflections. Physical Review Letters, 2003, 91, 187001. | 7.8 | 61 |
| 131 | Theoretical description of the electrical conduction in atomic and molecular junctions. Nanotechnology, 2003, 14, R29-R38. | 2.6 | 85 |
| 132 | Quantum Noise and Mutiple Andreev Reflections in Superconducting Contacts. , 2003, , 51-71. | | 0 |
| 133 | Molecular Transport Through Single Molecules. , 2003, , 403-418. | | 0 |
| 134 | Subharmonic Shapiro Steps and Assisted Tunneling in Superconducting Point Contacts. Physical Review Letters, 2002, 88, 157001. | 7.8 | 45 |
| 135 | Subharmonic gap structure ind-wave superconductors. Physical Review B, 2002, 65, . | 3.2 | 15 |
| 136 | Electrical Transport through Single-Molecule Junctions: From Molecular Orbitals to Conduction Channels. Physical Review Letters, 2002, 88, 256803. | 7.8 | 229 |
| 137 | Shot Noise and Multiple Andreev Reflections ind-Wave Superconductors. Physical Review Letters, 2002, 89, 227003. | 7.8 | 10 |
| 138 | Transport through superconductor/magnetic dot/superconductor structures. Physica C: Superconductivity and Its Applications, 2002, 367, 117-122. | 1.2 | 21 |
| 139 | Transport properties of normal and ferromagnetic atomic-size constrictions with superconducting electrodes. Physica C: Superconductivity and Its Applications, 2001, 352, 67-72. | 1.2 | 18 |
| 140 | Quasiclassical description of transport through superconducting contacts. Physical Review B, 2001, 64, . | 3.2 | 70 |
| 141 | Kondo effect in normal-superconductor quantum dots. Physical Review B, 2001, 63, . | 3.2 | 106 |
| 142 | Conduction channels of superconducting quantum point contacts. Physica B: Condensed Matter, 2000, 280, 425-431. | 2.7 | 13 |
| 143 | Shot Noise and Coherent Multiple Charge Transfer in Superconducting Quantum Point Contacts. Physical Review Letters, 1999, 82, 4086-4089. | 7.8 | 91 |
| 144 | General transport properties of superconducting quantum point contacts: a Green functions approach. Superlattices and Microstructures, 1999, 25, 925-936. | 3.1 | 14 |

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| 145 | The signature of chemical valence in the electrical conduction through a single-atom contact. Nature, 1998, 394, 154-157. | 27.8 | 597 |
| 146 | Evolution of Conducting Channels in Metallic Atomic Contacts under Elastic Deformation. Physical Review Letters, 1998, 81, 2990-2993. | 7.8 | 154 |
| 147 | Microscopic Origin of Conducting Channels in Metallic Atomic-Size Contacts. Physical Review Letters, 1998, 80, 1066-1069. | 7.8 | 245 |
| 148 | Resonant tunneling through a small quantum dot coupled to superconducting leads. Physical Review B, 1997, 55, R6137-R6140. | 3.2 | 147 |
| 149 | Hamiltonian approach to the transport properties of superconducting quantum point contacts. Physical Review B, 1996, 54, 7366-7379. | 3.2 | 438 |
| 150 | Microscopic theory of the phase-dependent linear conductance in highly transmissive superconducting quantum point contacts. Physica B: Condensed Matter, 1996, 218, 126-129. | 2.7 | 8 |
| 151 | The phase-dependent linear conductance of a superconducting quantum point contact. Journal of Physics Condensed Matter, 1996, 8, 449-456. | 1.8 | 5 |
| 152 | Photoinduced Currents in Normal and Superconducting Micro-Junctions. , 1995, , 281-294. | | 0 |
| 153 | Recent Advances in Understanding the Electron Transport Through Metal-Azurin-Metal Junctions. Frontiers in Physics, 0, 10, . | 2.1 | 3 |