

Carmen Herrmann

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

77
papers

1,959
citations

23
h-index

42
g-index

96
ext. papers

2,205
ext. citations

5.2
avg, IF

5.07
L-index

| # | Paper | IF | Citations |
|----|--|------|-----------|
| 77 | Spectroscopic Investigation of a Metal-Metal-Bonded Fe Single-Molecule Magnet with an Isolated = / Giant-Spin Ground State. <i>Inorganic Chemistry</i> , 2021 , 60, 4610-4622 | 5.1 | 2 |
| 76 | Emergence of Metallic Conduction and Cobalt(II)-Based Single-Molecule Magnetism in the Same Temperature Range. <i>Journal of the American Chemical Society</i> , 2021 , 143, 4891-4895 | 16.4 | 7 |
| 75 | Local decomposition of hybridization functions: Chemical insight into correlated molecular adsorbates. <i>Journal of Chemical Physics</i> , 2021 , 154, 144108 | 3.9 | 1 |
| 74 | Design Considerations for Oligo(p-phenyleneethynylene) Organic Radicals in Molecular Junctions. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 1208-1220 | 3.8 | 7 |
| 73 | Easy-plane to easy-axis anisotropy switching in a Co(II) single-ion magnet triggered by the diamagnetic lattice. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 9446-9452 | 7.1 | 1 |
| 72 | Insight into the Origin of Chiral-Induced Spin Selectivity from a Symmetry Analysis of Electronic Transmission. <i>Journal of Chemical Theory and Computation</i> , 2020 , 16, 2914-2929 | 6.4 | 35 |
| 71 | Kondo screening in Co adatoms with full Coulomb interaction. <i>Physical Review Research</i> , 2020 , 2, | 3.9 | 7 |
| 70 | Controlling Through-Space and Through-Bond Exchange Pathways in Bis-Cobaltocenes for Molecular Spintronics. <i>Angewandte Chemie</i> , 2020 , 132, 2428-2434 | 3.6 | 2 |
| 69 | Controlling Through-Space and Through-Bond Exchange Pathways in Bis-Cobaltocenes for Molecular Spintronics. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 2407-2413 | 16.4 | 5 |
| 68 | Toward a First-Principles Evaluation of Transport Mechanisms in Molecular Wires. <i>Journal of Chemical Theory and Computation</i> , 2020 , 16, 6267-6279 | 6.4 | 2 |
| 67 | Influence of Electronic Structure Modeling and Junction Structure on First-Principles Chiral Induced Spin Selectivity. <i>Journal of Chemical Theory and Computation</i> , 2020 , 16, 7357-7371 | 6.4 | 16 |
| 66 | Current vortices in aromatic carbon molecules. <i>Physical Review B</i> , 2020 , 102, | 3.3 | 2 |
| 65 | Exchange Spin Coupling from Gaussian Process Regression. <i>Journal of Physical Chemistry A</i> , 2020 , 124, 8708-8723 | 2.8 | 8 |
| 64 | Simultaneous manifestation of metallic conductivity and single-molecule magnetism in a layered molecule-based compound. <i>Chemical Science</i> , 2020 , 11, 11154-11161 | 9.4 | 8 |
| 63 | Co(CO) _n /Cu(001): Towards understanding chemical control of the Kondo effect. <i>Journal of Applied Physics</i> , 2019 , 125, 142910 | 2.5 | 4 |
| 62 | Electronic Communication as a Transferable Property of Molecular Bridges?. <i>Journal of Physical Chemistry A</i> , 2019 , 123, 10205-10223 | 2.8 | 15 |
| 61 | Cobalt-Catalyzed Hydrogenations via Olefin Cobaltate and Hydride Intermediates. <i>ACS Catalysis</i> , 2019 , 9, 7596-7606 | 13.1 | 21 |

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| 60 | Hydrogen-bonded supramolecular metal-imidazolate frameworks: gas sorption, magnetic and UV/Vis spectroscopic properties. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2019 , 94, 155-165 | 1.7 | 2 |
| 59 | Structural diradical character. <i>Journal of Computational Chemistry</i> , 2019 , 40, 854-865 | 3.5 | 4 |
| 58 | Designing Long-Range Charge Delocalization from First-Principles. <i>Journal of Chemical Theory and Computation</i> , 2019 , 15, 165-177 | 6.4 | 8 |
| 57 | Interplay between strong correlation and adsorption distances: Co on Cu(001). <i>Physical Review B</i> , 2018 , 97, | 3.3 | 8 |
| 56 | Performance of range-separated hybrid exchange-correlation functionals for the calculation of magnetic exchange coupling constants of organic diradicals. <i>Journal of Computational Chemistry</i> , 2018 , 39, 780-787 | 3.5 | 9 |
| 55 | Toward an automated analysis of exchange pathways in spin-coupled systems. <i>Journal of Computational Chemistry</i> , 2018 , 39, 81-92 | 3.5 | 9 |
| 54 | Designing and Understanding Building Blocks for Molecular Spintronics. <i>Nanoscience and Technology</i> , 2018 , 117-136 | 0.6 | 1 |
| 53 | Modeling adsorbate-induced property changes of carbon nanotubes. <i>Journal of Computational Chemistry</i> , 2017 , 38, 861-868 | 3.5 | 3 |
| 52 | Why Are Dithienylethene-Linked Biscobaltocenes so Hard to Photoswitch?. <i>ChemPhysChem</i> , 2017 , 18, 596-609 | 3.2 | 4 |
| 51 | Why Are Dithienylethene-Linked Biscobaltocenes so Hard to Photoswitch?. <i>ChemPhysChem</i> , 2017 , 18, 578-578 | 3.2 | |
| 50 | Towards colloidal spintronics through Rashba spin-orbit interaction in lead sulphide nanosheets. <i>Nature Communications</i> , 2017 , 8, 15721 | 17.4 | 19 |
| 49 | Influence of Radical Bridges on Electron Spin Coupling. <i>Journal of Physical Chemistry A</i> , 2017 , 121, 216-2258 | | 12 |
| 48 | Synthesis, characterization and magnetic properties of head-to-head stacked vanadocenes. <i>Dalton Transactions</i> , 2017 , 46, 15494-15502 | 4.3 | 3 |
| 47 | Rashba Spin-Orbit Coupling in Colloidal Lead Sulfide Nanosheets 2017 , | | 1 |
| 46 | Local electric dipole moments: A generalized approach. <i>Journal of Computational Chemistry</i> , 2016 , 37, 2260-5 | 3.5 | 3 |
| 45 | Large Magnetoresistance in Single-Radical Molecular Junctions. <i>Nano Letters</i> , 2016 , 16, 4960-7 | 11.5 | 50 |
| 44 | GenLocDip: A Generalized Program to Calculate and Visualize Local Electric Dipole Moments. <i>Journal of Computational Chemistry</i> , 2016 , 37, 2324-34 | 3.5 | 5 |
| 43 | Limits of Molecular Dithienylethene Switches Caused by Ferrocenyl Substitution. <i>ChemPhysChem</i> , 2016 , 17, 1881-94 | 3.2 | 6 |

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| 42 | Photoswitching Behavior of a Cyclohexene-Bridged versus a Cyclopentene-Bridged Dithienylethene System. <i>ChemPhysChem</i> , 2015 , 16, 1491-501 | 3.2 | 7 |
| 41 | High-conductance surface-anchoring of a mechanically flexible platform-based porphyrin complex. <i>New Journal of Physics</i> , 2015 , 17, 013012 | 2.9 | 16 |
| 40 | A GreenB-Function Approach to Exchange Spin Coupling As a New Tool for Quantum Chemistry. <i>Journal of Chemical Theory and Computation</i> , 2015 , 11, 5651-64 | 6.4 | 21 |
| 39 | Communication through molecular bridges: different bridge orbital trends result in common property trends. <i>Journal of Computational Chemistry</i> , 2015 , 36, 201-9 | 3.5 | 18 |
| 38 | Quantum Chemical Calculations and Experimental Validation of the Photoclick Reaction for Fluorescent Labeling of the 5Rcap of Eukaryotic mRNAs. <i>ChemistryOpen</i> , 2015 , 4, 295-301 | 2.3 | 12 |
| 37 | Extended Threefold-Symmetric Second-Harmonic-Generation Chromophores Based on 1,3,5-Trisubstituted Benzene Complexes. <i>European Journal of Inorganic Chemistry</i> , 2015 , 2015, n/a-n/a | 2.3 | 2 |
| 36 | Mode-tracking based stationary-point optimization. <i>Journal of Computational Chemistry</i> , 2015 , 36, 1429-38 | 3.8 | 11 |
| 35 | Increasing Magnetic Coupling through Oxidation of a Ferrocene Bridge. <i>Inorganic Chemistry</i> , 2015 , 54, 11733-40 | 5.1 | 17 |
| 34 | EXAFS simulation refinement based on broken-symmetry DFT geometries for the Mn(IV)-Fe(III) center of class I RNR from <i>Chlamydia trachomatis</i> . <i>Dalton Transactions</i> , 2014 , 43, 576-83 | 4.3 | 3 |
| 33 | Synthesis and Molecular Structures of Monosubstituted Pentamethylcobaltocenium Cations. <i>European Journal of Inorganic Chemistry</i> , 2014 , 2014, 4115-4122 | 2.3 | 12 |
| 32 | 2,2RBipyridine-based dendritic structured compounds for second harmonic generation. <i>Chemistry - A European Journal</i> , 2014 , 20, 14351-61 | 4.8 | 5 |
| 31 | Controlling molecular conductance: switching off β ites through protonation. <i>ChemPhysChem</i> , 2014 , 15, 4011-8 | 3.2 | 21 |
| 30 | Charge delocalization in an organic mixed valent bithiophene is greater than in a structurally analogous biselenophene. <i>Journal of Physical Chemistry A</i> , 2014 , 118, 11293-303 | 2.8 | 14 |
| 29 | Electronic communication through molecular bridges. <i>Chemical Communications</i> , 2013 , 49, 10456-8 | 5.8 | 29 |
| 28 | The angular dependence of spin-state energy splittings in the core. <i>Molecular Physics</i> , 2013 , 111, 1482-1491 | 4.7 | 1 |
| 27 | M(O)V(I)P(AC): vibrational spectroscopy with a robust meta-program for massively parallel standard and inverse calculations. <i>Journal of Computational Chemistry</i> , 2012 , 33, 2186-98 | 3.5 | 50 |
| 26 | Molecular electronic junction transport: some pathways and some ideas. <i>Topics in Current Chemistry</i> , 2012 , 313, 1-38 | | 20 |
| 25 | Designing organic spin filters in the coherent tunneling regime. <i>Journal of Chemical Physics</i> , 2011 , 134, 224306 | 3.9 | 42 |

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| 24 | Optical and vibrational properties of toroidal carbon nanotubes. <i>Chemistry - A European Journal</i> , 2011 , 17, 3868-75 | 4.8 | 23 |
| 23 | Exploring local currents in molecular junctions. <i>Nature Chemistry</i> , 2010 , 2, 223-8 | 17.6 | 325 |
| 22 | Ghost transmission: How large basis sets can make electron transport calculations worse. <i>Journal of Chemical Physics</i> , 2010 , 132, 024103 | 3.9 | 78 |
| 21 | Understanding coherent transport through π -stacked systems upon spatial dislocation. <i>Journal of Physical Chemistry B</i> , 2010 , 114, 14735-44 | 3.4 | 25 |
| 20 | Local Pathways in Coherent Electron Transport through Iron Porphyrin Complexes: A Challenge for First-Principles Transport Calculations. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 20813-20820 | 3.8 | 20 |
| 19 | Organic radicals as spin filters. <i>Journal of the American Chemical Society</i> , 2010 , 132, 3682-4 | 16.4 | 149 |
| 18 | The chameleonic nature of electron transport through π -stacked systems. <i>Journal of the American Chemical Society</i> , 2010 , 132, 7887-9 | 16.4 | 68 |
| 17 | Synthesis, Structures, and Magnetic Properties of N-Trialkylsilyl-8-amidoquinoline Complexes of Chromium, Manganese, Iron, and Cobalt as well as of Wheel-Like Hexanuclear Iron(II) and Manganese(II) Bis(8-amidoquinoline). <i>European Journal of Inorganic Chemistry</i> , 2010 , 2010, 1777-1790 | 2.3 | 10 |
| 16 | Restrained optimization of broken-symmetry determinants. <i>International Journal of Quantum Chemistry</i> , 2009 , 109, 2430-2446 | 2.1 | 23 |
| 15 | Relevance of the electric-dipole--electric-quadrupole contribution to Raman optical activity spectra. <i>Journal of Physical Chemistry B</i> , 2008 , 112, 2218-32 | 3.4 | 45 |
| 14 | QM/MM vibrational mode tracking. <i>Journal of Computational Chemistry</i> , 2008 , 29, 2460-70 | 3.5 | 20 |
| 13 | Spin-Spin interactions in polynuclear transition-metal complexes. <i>Chemical Physics Letters</i> , 2008 , 451, 301-308 | 2.5 | 34 |
| 12 | Importance of backbone angles versus amino acid configurations in peptide vibrational Raman optical activity spectra. <i>Chemical Physics</i> , 2008 , 343, 200-209 | 2.3 | 31 |
| 11 | Finding a needle in a haystack: direct determination of vibrational signatures in complex systems. <i>New Journal of Chemistry</i> , 2007 , 31, 818 | 3.6 | 57 |
| 10 | The first photoexcitation step of ruthenium-based models for artificial photosynthesis highlighted by resonance Raman spectroscopy. <i>Journal of Physical Chemistry B</i> , 2007 , 111, 6078-87 | 3.4 | 50 |
| 9 | The electronic structure of the tris(ethylene) complexes $[M(C_2H_4)_3]$ (M=Ni, Pd, and Pt): a combined experimental and theoretical study. <i>Chemistry - A European Journal</i> , 2007 , 13, 10078-87 | 4.8 | 45 |
| 8 | Spin states in polynuclear clusters: the $[Fe_2O_2]$ core of the methane monooxygenase active site. <i>Journal of Computational Chemistry</i> , 2006 , 27, 1223-39 | 3.5 | 50 |
| 7 | Can Raman optical activity separate axial from local chirality? A theoretical study of helical deca-alanine. <i>ChemPhysChem</i> , 2006 , 7, 2189-96 | 3.2 | 69 |

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| 6 | First-Principles Approach to Vibrational Spectroscopy of Biomolecules 2006 , 85-132 | | 52 |
| 5 | Trinuclear copper(II) complexes derived from Schiff-base ligands based on a 6-amino-6-deoxyglucopyranoside: structural and magnetic characterization. <i>Inorganic Chemistry</i> , 2006 , 45, 10066-76 | 5.1 | 60 |
| 4 | Direct targeting of adsorbate vibrations with mode-tracking. <i>Surface Science</i> , 2006 , 600, 1891-1900 | 1.8 | 17 |
| 3 | Theoretical study on the spin-state energy splittings and local spin in cationic [Re]-Cn-[Re] complexes. <i>Inorganic Chemistry</i> , 2005 , 44, 6174-82 | 5.1 | 26 |
| 2 | Comparative analysis of local spin definitions. <i>Journal of Chemical Physics</i> , 2005 , 122, 34102 | 3.9 | 77 |
| 1 | Chiral-Induced Spin Selectivity: A Symmetry Analysis of Electronic Transmission | | 3 |