

Carmen Herrmann

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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	Exploring local currents in molecular junctions. <i>Nature Chemistry</i> , 2010 , 2, 223-8	17.6	325
76	Organic radicals as spin filters. <i>Journal of the American Chemical Society</i> , 2010 , 132, 3682-4	16.4	149
75	Ghost transmission: How large basis sets can make electron transport calculations worse. <i>Journal of Chemical Physics</i> , 2010 , 132, 024103	3.9	78
74	Comparative analysis of local spin definitions. <i>Journal of Chemical Physics</i> , 2005 , 122, 34102	3.9	77
73	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
72	The chameleonic nature of electron transport through pi-stacked systems. <i>Journal of the American Chemical Society</i> , 2010 , 132, 7887-9	16.4	68
71	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
70	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
69	First-Principles Approach to Vibrational Spectroscopy of Biomolecules 2006 , 85-132		52
68	Large Magnetoresistance in Single-Radical Molecular Junctions. <i>Nano Letters</i> , 2016 , 16, 4960-7	11.5	50
67	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
66	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
65	Spin states in polynuclear clusters: the [Fe ₂ O ₂] core of the methane monooxygenase active site. <i>Journal of Computational Chemistry</i> , 2006 , 27, 1223-39	3.5	50
64	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
63	The electronic structure of the tris(ethylene) complexes [M(C ₂ H 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
62	Designing organic spin filters in the coherent tunneling regime. <i>Journal of Chemical Physics</i> , 2011 , 134, 224306	3.9	42
61	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

60	Spin-spin interactions in polynuclear transition-metal complexes. <i>Chemical Physics Letters</i> , 2008 , 451, 301-308	2.5	34
59	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
58	Electronic communication through molecular bridges. <i>Chemical Communications</i> , 2013 , 49, 10456-8	5.8	29
57	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
56	Understanding coherent transport through stacked systems upon spatial dislocation. <i>Journal of Physical Chemistry B</i> , 2010 , 114, 14735-44	3.4	25
55	Optical and vibrational properties of toroidal carbon nanotubes. <i>Chemistry - A European Journal</i> , 2011 , 17, 3868-75	4.8	23
54	Restrained optimization of broken-symmetry determinants. <i>International Journal of Quantum Chemistry</i> , 2009 , 109, 2430-2446	2.1	23
53	A Green-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
52	Cobalt-Catalyzed Hydrogenations via Olefin Cobaltate and Hydride Intermediates. <i>ACS Catalysis</i> , 2019 , 9, 7596-7606	13.1	21
51	Controlling molecular conductance: switching off bites through protonation. <i>ChemPhysChem</i> , 2014 , 15, 4011-8	3.2	21
50	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
49	Molecular electronic junction transport: some pathways and some ideas. <i>Topics in Current Chemistry</i> , 2012 , 313, 1-38		20
48	QM/MM vibrational mode tracking. <i>Journal of Computational Chemistry</i> , 2008 , 29, 2460-70	3.5	20
47	Towards colloidal spintronics through Rashba spin-orbit interaction in lead sulphide nanosheets. <i>Nature Communications</i> , 2017 , 8, 15721	17.4	19
46	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
45	Increasing Magnetic Coupling through Oxidation of a Ferrocene Bridge. <i>Inorganic Chemistry</i> , 2015 , 54, 11733-40	5.1	17
44	Direct targeting of adsorbate vibrations with mode-tracking. <i>Surface Science</i> , 2006 , 600, 1891-1900	1.8	17
43	High-conductance surface-anchoring of a mechanically flexible platform-based porphyrin complex. <i>New Journal of Physics</i> , 2015 , 17, 013012	2.9	16

42	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
41	Electronic Communication as a Transferable Property of Molecular Bridges?. <i>Journal of Physical Chemistry A</i> , 2019 , 123, 10205-10223	2.8	15
40	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
39	Influence of Radical Bridges on Electron Spin Coupling. <i>Journal of Physical Chemistry A</i> , 2017 , 121, 216-225	2.8	12
38	Synthesis and Molecular Structures of Monosubstituted Pentamethylcobaltocenium Cations. <i>European Journal of Inorganic Chemistry</i> , 2014 , 2014, 4115-4122	2.3	12
37	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
36	Mode-tracking based stationary-point optimization. <i>Journal of Computational Chemistry</i> , 2015 , 36, 1429-38	3.8	11
35	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
34	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
33	Toward an automated analysis of exchange pathways in spin-coupled systems. <i>Journal of Computational Chemistry</i> , 2018 , 39, 81-92	3.5	9
32	Interplay between strong correlation and adsorption distances: Co on Cu(001). <i>Physical Review B</i> , 2018 , 97,	3.3	8
31	Exchange Spin Coupling from Gaussian Process Regression. <i>Journal of Physical Chemistry A</i> , 2020 , 124, 8708-8723	2.8	8
30	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
29	Designing Long-Range Charge Delocalization from First-Principles. <i>Journal of Chemical Theory and Computation</i> , 2019 , 15, 165-177	6.4	8
28	Photoswitching Behavior of a Cyclohexene-Bridged versus a Cyclopentene-Bridged Dithienylethene System. <i>ChemPhysChem</i> , 2015 , 16, 1491-501	3.2	7
27	Kondo screening in Co adatoms with full Coulomb interaction. <i>Physical Review Research</i> , 2020 , 2,	3.9	7
26	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
25	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

24	Limits of Molecular Dithienylethene Switches Caused by Ferrocenyl Substitution. <i>ChemPhysChem</i> , 2016 , 17, 1881-94	3.2	6
23	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
22	2,2RBipyridine-based dendritic structured compounds for second harmonic generation. <i>Chemistry - A European Journal</i> , 2014 , 20, 14351-61	4.8	5
21	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
20	Why Are Dithienylethene-Linked Biscobaltocenes so Hard to Photoswitch?. <i>ChemPhysChem</i> , 2017 , 18, 596-609	3.2	4
19	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
18	Structural diradical character. <i>Journal of Computational Chemistry</i> , 2019 , 40, 854-865	3.5	4
17	Modeling adsorbate-induced property changes of carbon nanotubes. <i>Journal of Computational Chemistry</i> , 2017 , 38, 861-868	3.5	3
16	Synthesis, characterization and magnetic properties of head-to-head stacked vanadocenes. <i>Dalton Transactions</i> , 2017 , 46, 15494-15502	4.3	3
15	Local electric dipole moments: A generalized approach. <i>Journal of Computational Chemistry</i> , 2016 , 37, 2260-5	3.5	3
14	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
13	Chiral-Induced Spin Selectivity: A Symmetry Analysis of Electronic Transmission		3
12	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
11	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
10	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
9	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
8	Current vortices in aromatic carbon molecules. <i>Physical Review B</i> , 2020 , 102,	3.3	2
7	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

6	The angular dependence of spin-state energy splittings in the core. <i>Molecular Physics</i> , 2013 , 111, 1482-1491	1
5	Rashba Spin-Orbit Coupling in Colloidal Lead Sulfide Nanosheets 2017 ,	1
4	Local decomposition of hybridization functions: Chemical insight into correlated molecular adsorbates. <i>Journal of Chemical Physics</i> , 2021 , 154, 144108	3.9 1
3	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
2	Designing and Understanding Building Blocks for Molecular Spintronics. <i>Nanoscience and Technology</i> , 2018 , 117-136	0.6 1
1	Why Are Dithienylethene-Linked Biscobaltocenes so Hard to Photoswitch?. <i>ChemPhysChem</i> , 2017 , 18, 578-578	3.2