

# Jochen Autschbach

## List of Publications by Citations

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#	Paper	IF	Citations
376	Molcas 8: New capabilities for multiconfigurational quantum chemical calculations across the periodic table. <i>Journal of Computational Chemistry</i> , <b>2016</b> , 37, 506-41	3.5	1047
375	Theoretical methods of potential use for studies of inorganic reaction mechanisms. <i>Chemical Reviews</i> , <b>2005</b> , 105, 2695-722	68.1	364
374	Chiroptical properties from time-dependent density functional theory. I. Circular dichroism spectra of organic molecules. <i>Journal of Chemical Physics</i> , <b>2002</b> , 116, 6930-6940	3.9	346
373	OpenMolcas: From Source Code to Insight. <i>Journal of Chemical Theory and Computation</i> , <b>2019</b> , 15, 5925-5964	5.4	310
372	Computing chiroptical properties with first-principles theoretical methods: background and illustrative examples. <i>Chirality</i> , <b>2009</b> , 21 Suppl 1, E116-52	2.1	264
371	Nuclear spin-spin coupling constants from regular approximate relativistic density functional calculations. I. Formalism and scalar relativistic results for heavy metal compounds. <i>Journal of Chemical Physics</i> , <b>2000</b> , 113, 936-947	3.9	218
370	Quasiparticle spectra from a nonempirical optimally tuned range-separated hybrid density functional. <i>Physical Review Letters</i> , <b>2012</b> , 109, 226405	7.4	203
369	Delocalization error and "functional tuning" in Kohn-Sham calculations of molecular properties. <i>Accounts of Chemical Research</i> , <b>2014</b> , 47, 2592-602	24.3	196
368	Perspective: relativistic effects. <i>Journal of Chemical Physics</i> , <b>2012</b> , 136, 150902	3.9	189
367	Nuclear spin-spin coupling constants from regular approximate relativistic density functional calculations. II. Spin-orbit coupling effects and anisotropies. <i>Journal of Chemical Physics</i> , <b>2000</b> , 113, 9410-9418	3.9	189
366	NWChem: Past, present, and future. <i>Journal of Chemical Physics</i> , <b>2020</b> , 152, 184102	3.9	187
365	Chiroptical properties from time-dependent density functional theory. II. Optical rotations of small to medium sized organic molecules. <i>Journal of Chemical Physics</i> , <b>2002</b> , 117, 581-592	3.9	168
364	Charge-transfer excitations and time-dependent density functional theory: problems and some proposed solutions. <i>ChemPhysChem</i> , <b>2009</b> , 10, 1757-60	3.2	167
363	Theory and method for calculating resonance Raman scattering from resonance polarizability derivatives. <i>Journal of Chemical Physics</i> , <b>2005</b> , 123, 174110	3.9	155
362	Computational study on the selectivity of donor/acceptor-substituted rhodium carbenoids. <i>Journal of Organic Chemistry</i> , <b>2009</b> , 74, 6555-63	4.2	154
361	Density functional calculations of the <sup>13</sup> C NMR chemical shifts in (9,0) single-walled carbon nanotubes. <i>Journal of the American Chemical Society</i> , <b>2004</b> , 126, 13079-88	16.4	148
360	Direct spectroscopic characterization of a transitory dirhodium donor-acceptor carbene complex. <i>Science</i> , <b>2013</b> , 342, 351-4	33.3	146

359	Finite lifetime effects on the polarizability within time-dependent density-functional theory. <i>Journal of Chemical Physics</i> , <b>2005</b> , 122, 224115	3.9	146
358	Scope and mechanistic analysis of the enantioselective synthesis of allenes by rhodium-catalyzed tandem ylide formation/[2,3]-sigmatropic rearrangement between donor/acceptor carbenoids and propargylic alcohols. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 15497-504	16.4	143
357	Curvature and Frontier Orbital Energies in Density Functional Theory. <i>Journal of Physical Chemistry Letters</i> , <b>2012</b> , 3, 3740-4	6.4	134
356	Acid/base-triggered switching of circularly polarized luminescence and electronic circular dichroism in organic and organometallic helicenes. <i>Chemistry - A European Journal</i> , <b>2015</b> , 21, 1673-81	4.8	126
355	Does a Molecule-Specific Density Functional Give an Accurate Electron Density? The Challenging Case of the CuCl Electric Field Gradient. <i>Journal of Physical Chemistry Letters</i> , <b>2012</b> , 3, 576-81	6.4	126
354	Metallahelicenes: easily accessible helicene derivatives with large and tunable chiroptical properties. <i>Angewandte Chemie - International Edition</i> , <b>2010</b> , 49, 99-102	16.4	126
353	Metal-bis(helicene) assemblies incorporating pi-conjugated phosphole-azahelicene ligands: impacting chiroptical properties by metal variation. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 3183-5	16.4	120
352	Curing difficult cases in magnetic properties prediction with self-interaction corrected density functional theory. <i>Journal of Chemical Physics</i> , <b>2001</b> , 115, 26-42	3.9	118
351	Chapter 1 Relativistic Computations of NMR Parameters from First Principles: Theory and Applications. <i>Annual Reports on NMR Spectroscopy</i> , <b>2009</b> , 67, 1-95	1.7	115
350	Performance of an Optimally Tuned Range-Separated Hybrid Functional for 0-0 Electronic Excitation Energies. <i>Journal of Chemical Theory and Computation</i> , <b>2014</b> , 10, 1677-85	6.4	113
349	Electronic Energy Gaps for $\pi$ -Conjugated Oligomers and Polymers Calculated with Density Functional Theory. <i>Journal of Chemical Theory and Computation</i> , <b>2014</b> , 10, 1035-47	6.4	111
348	Enantiopure Cycloirradiated Complexes Bearing a Pentahelicenic N-Heterocyclic Carbene and Displaying Long-Lived Circularly Polarized Phosphorescence. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 8236-8239	16.4	110
347	Influence of the delocalization error and applicability of optimal functional tuning in density functional calculations of nonlinear optical properties of organic donor-acceptor chromophores. <i>ChemPhysChem</i> , <b>2013</b> , 14, 2450-61	3.2	110
346	Analysis of electric field gradient tensors at quadrupolar nuclei in common structural motifs. <i>Concepts in Magnetic Resonance Part A: Bridging Education and Research</i> , <b>2010</b> , 36A, 84-126	0.6	110
345	Ruthenium-vinylhelicenes: remote metal-based enhancement and redox switching of the chiroptical properties of a helicene core. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 15628-31	16.4	108
344	Modern quantum chemistry with [Open]Molcas. <i>Journal of Chemical Physics</i> , <b>2020</b> , 152, 214117	3.9	106
343	Analyzing NMR shielding tensors calculated with two-component relativistic methods using spin-free localized molecular orbitals. <i>Journal of Chemical Physics</i> , <b>2008</b> , 128, 164112	3.9	106
342	Assessing the exchange coupling in binuclear lanthanide(III) complexes and the slow relaxation of the magnetization in the antiferromagnetically coupled Dy derivative. <i>Chemical Science</i> , <b>2015</b> , 6, 4148-4159	8.4	102

341	Straightforward access to mono- and bis-cycloplatinated helicenes that display circularly polarized phosphorescence using crystallization resolution methods. <i>Chemical Science</i> , <b>2014</b> , 5, 1915-1927	9.4	99
340	Analyzing Pt chemical shifts calculated from relativistic density functional theory using localized orbitals: the role of Pt 5d lone pairs. <i>Magnetic Resonance in Chemistry</i> , <b>2008</b> , 46 Suppl 1, S45-55	2.1	98
339	Optical rotation calculated with time-dependent density functional theory: the OR45 benchmark. <i>Journal of Physical Chemistry A</i> , <b>2011</b> , 115, 10930-49	2.8	97
338	Highly enantioselective Rh <sub>2</sub> (S-DOSP) <sub>4</sub> -catalyzed cyclopropenation of alkynes with styryldiazoacetates. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 17211-5	16.4	97
337	Magnitude of zero-point vibrational corrections to optical rotation in rigid organic molecules: a time-dependent density functional study. <i>Journal of Physical Chemistry A</i> , <b>2005</b> , 109, 8617-23	2.8	97
336	Longest-Wavelength Electronic Excitations of Linear Cyanines: The Role of Electron Delocalization and of Approximations in Time-Dependent Density Functional Theory. <i>Journal of Chemical Theory and Computation</i> , <b>2013</b> , 9, 4991-5003	6.4	96
335	Calculation of Hyperfine Tensors and Paramagnetic NMR Shifts Using the Relativistic Zeroth-Order Regular Approximation and Density Functional Theory. <i>Journal of Chemical Theory and Computation</i> , <b>2011</b> , 7, 2175-88	6.4	93
334	Properties of WAu12. <i>Physical Chemistry Chemical Physics</i> , <b>2004</b> , 6, 11-22	3.6	93
333	Tuned Range-Separated Time-Dependent Density Functional Theory Applied to Optical Rotation. <i>Journal of Chemical Theory and Computation</i> , <b>2012</b> , 8, 245-56	6.4	92
332	On the relation between time-dependent and variational density functional theory approaches for the determination of excitation energies and transition moments. <i>Journal of Chemical Physics</i> , <b>2009</b> , 130, 154102	3.9	90
331	Dependence of relativistic effects on electronic configuration in the neutral atoms of d- and f-block elements. <i>Journal of Computational Chemistry</i> , <b>2002</b> , 23, 804-13	3.5	89
330	Calculating Natural Optical Activity of Molecules from First Principles. <i>Annual Review of Physical Chemistry</i> , <b>2017</b> , 68, 399-420	15.7	88
329	Rhodium(II)-catalyzed cross-coupling of diazo compounds. <i>Angewandte Chemie - International Edition</i> , <b>2011</b> , 50, 2544-8	16.4	87
328	Double perturbation theory: a powerful tool in computational coordination chemistry. <i>Coordination Chemistry Reviews</i> , <b>2003</b> , 238-239, 83-126	23.2	86
327	Density functional calculations on electronic circular dichroism spectra of chiral transition metal complexes. <i>Inorganic Chemistry</i> , <b>2003</b> , 42, 2867-77	5.1	86
326	Calculating molecular electric and magnetic properties from time-dependent density functional response theory. <i>Journal of Chemical Physics</i> , <b>2002</b> , 116, 891-896	3.9	86
325	Time-dependent density functional response theory for electronic chiroptical properties of chiral molecules. <i>Topics in Current Chemistry</i> , <b>2011</b> , 298, 1-98		84
324	Calculation of optical rotation with time-periodic magnetic-field-dependent basis functions in approximate time-dependent density-functional theory. <i>Journal of Chemical Physics</i> , <b>2005</b> , 123, 114103	3.9	83

323	Exciton coupling in diketopyrrolopyrrole-helicene derivatives leads to red and near-infrared circularly polarized luminescence. <i>Chemical Science</i> , <b>2018</b> , 9, 735-742	9.4	82
322	On the mechanism and selectivity of the combined C-H activation/Cope rearrangement. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 5076-85	16.4	81
321	Solid-state chlorine NMR of group IV transition metal organometallic complexes. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 3317-30	16.4	79
320	Accurate dipole polarizabilities for water clusters n=2-12 at the coupled-cluster level of theory and benchmarking of various density functionals. <i>Journal of Chemical Physics</i> , <b>2009</b> , 131, 214103	3.9	78
319	Density functional theory applied to calculating optical and spectroscopic properties of metal complexes: NMR and optical activity. <i>Coordination Chemistry Reviews</i> , <b>2007</b> , 251, 1796-1821	23.2	76
318	From hetero- to homochiral bis(metallahelicene)s based on a Pt(III)-Pt(III) bonded scaffold: isomerization, structure, and chiroptical properties. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 3800-3	16.4	75
317	Assembly of pi-conjugated phosphole azahelicene derivatives into chiral coordination complexes: an experimental and theoretical study. <i>Chemistry - A European Journal</i> , <b>2010</b> , 16, 5976-6005	4.8	75
316	Characterization of berkelium(III) dipicolinate and borate compounds in solution and the solid state. <i>Science</i> , <b>2016</b> , 353,	33.3	73
315	Magnetic properties and electronic structure of neptunyl(VI) complexes: wavefunctions, orbitals, and crystal-field models. <i>Chemistry - A European Journal</i> , <b>2014</b> , 20, 7994-8011	4.8	73
314	Applications of Time Dependent and Time Independent Density Functional Theory to the First [to] Transition in Cyanine Dyes. <i>Journal of Chemical Theory and Computation</i> , <b>2014</b> , 10, 3299-307	6.4	73
313	Interaction tensors and local dynamics in common structural motifs of nitrogen: a solid-state <sup>14</sup> N NMR and DFT study. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 527-46	16.4	73
312	Scalar Relativistic Computations and Localized Orbital Analyses of Nuclear Hyperfine Coupling and Paramagnetic NMR Chemical Shifts. <i>Journal of Chemical Theory and Computation</i> , <b>2012</b> , 8, 598-609	6.4	72
311	On the origin of optical activity in tris-diamine complexes of Co(III) and Rh(III): a simple model based on time-dependent density function theory. <i>Journal of the American Chemical Society</i> , <b>2005</b> , 127, 975-85	16.4	71
310	enantio-Enriched CPL-active helicene-bipyridine-rhenium complexes. <i>Chemical Communications</i> , <b>2015</b> , 51, 3754-7	5.8	70
309	( <sup>29</sup> Si) DFT/NMR observation of spin-orbit effect in metallasilatrane sheds some light on the strength of the metal-bilicon interaction. <i>Angewandte Chemie - International Edition</i> , <b>2011</b> , 50, 255-9	16.4	70
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307	Time-dependent density functional calculations of optical rotatory dispersion including resonance wavelengths as a potentially useful tool for determining absolute configurations of chiral molecules. <i>Journal of Physical Chemistry A</i> , <b>2006</b> , 110, 2461-73	2.8	69
306	Solvent effects on heavy atom nuclear spin-spin coupling constants: a theoretical study of Hg-C and Pt-P couplings. <i>Journal of the American Chemical Society</i> , <b>2001</b> , 123, 3341-9	16.4	69

305	Synthesis and Chiroptical Properties of Hexa-, Octa-, and Deca-azaborahelicenes: Influence of Helicene Size and of the Number of Boron Atoms. <i>Chemistry - A European Journal</i> , <b>2017</b> , 23, 407-418	4.8	68
304	Resonance vibrational Raman optical activity: a time-dependent density functional theory approach. <i>Journal of Chemical Physics</i> , <b>2007</b> , 127, 134101	3.9	68
303	Magnitude of finite-nucleus-size effects in relativistic density functional computations of indirect NMR nuclear spin-spin coupling constants. <i>ChemPhysChem</i> , <b>2009</b> , 10, 2274-83	3.2	64
302	Toward an accurate determination of <sup>195</sup> Pt chemical shifts by density functional computations: the importance of unspecific solvent effects and the dependence of Pt magnetic shielding constants on structural parameters. <i>Inorganic Chemistry</i> , <b>2006</b> , 45, 3316-24	5.1	64
301	The Calculation of NMR Parameters in Transition Metal Complexes. <i>Structure and Bonding</i> , <b>2004</b> , 1-48	0.9	64
300	Charge-Transfer Versus Charge-Transfer-Like Excitations Revisited. <i>Journal of Chemical Theory and Computation</i> , <b>2015</b> , 11, 3305-20	6.4	62
299	A revised electronic Hessian for approximate time-dependent density functional theory. <i>Journal of Chemical Physics</i> , <b>2008</b> , 129, 184114	3.9	62
298	Tellurium Analogues of Rosamine and Rhodamine Dyes: Synthesis, Structure, <sup>125</sup> Te NMR, and Heteroatom Contributions to Excitation Energies. <i>Organometallics</i> , <b>2007</b> , 26, 6248-6257	3.8	62
297	Density functional study of the <sup>13</sup> C NMR chemical shifts in small-to-medium-diameter infinite single-walled carbon nanotubes. <i>Journal of Physical Chemistry A</i> , <b>2006</b> , 110, 11995-2004	2.8	62
296	Enantioselective Recognition of Ammonium Carbamates in a Chiral Metal-Organic Framework. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 16000-16012	16.4	61
295	Analyzing and Interpreting NMR Spin-Spin Coupling Constants Using Molecular Orbital Calculations. <i>Journal of Chemical Education</i> , <b>2007</b> , 84, 156	2.4	61
294	Time-dependent density functional theory for calculating origin-independent optical rotation and rotatory strength tensors. <i>ChemPhysChem</i> , <b>2011</b> , 12, 3224-35	3.2	60
293	Probing the solvent shell with <sup>195</sup> Pt chemical shifts: density functional theory molecular dynamics study of Pt(II) and Pt(IV) anionic complexes in aqueous solution. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 3472-83	16.4	60
292	Two-component relativistic hybrid density functional computations of nuclear spin-spin coupling tensors using Slater-type basis sets and density-fitting techniques. <i>Journal of Chemical Physics</i> , <b>2008</b> , 129, 094105	3.9	60
291	Calculation of origin-independent optical rotation tensor components in approximate time-dependent density functional theory. <i>Journal of Chemical Physics</i> , <b>2006</b> , 125, 34102	3.9	60
290	Relativistic Density-Functional Computations of the Chemical Shift of <sup>129</sup> Xe in [email[protected]]60. <i>Journal of Physical Chemistry A</i> , <b>2003</b> , 107, 4967-4972	2.8	59
289	Relativistic Zeroth-Order Regular Approximation Combined with Nonhybrid and Hybrid Density Functional Theory: Performance for NMR Indirect Nuclear Spin-Spin Coupling in Heavy Metal Compounds. <i>Journal of Chemical Theory and Computation</i> , <b>2010</b> , 6, 223-34	6.4	58
288	The role of the exchange-correlation response kernel and scaling corrections in relativistic density functional nuclear magnetic shielding calculations with the zeroth-order regular approximation. <i>Molecular Physics</i> , <b>2013</b> , 111, 2544-2554	1.7	57

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286	A theoretical investigation of the remarkable nuclear spin-spin coupling pattern in [(NC)(5)Pt-Tl(CN)](-). <i>Journal of the American Chemical Society</i> , <b>2001</b> , 123, 5320-4	16.4	56
285	Iron Alkynyl Helicenes: Redox-Triggered Chiroptical Tuning in the IR and Near-IR Spectral Regions and Suitable for Telecommunications Applications. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 8062-6	16.4	55
284	Relativistic calculations of magnetic resonance parameters: background and some recent developments. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , <b>2014</b> , 372, 20120489	3	55
283	Unravelling the structure of Magnus' pink salt. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 13331-51	15.4	55
282	Calculation of Verdet constants with time-dependent density functional theory: implementation and results for small molecules. <i>Journal of Chemical Physics</i> , <b>2005</b> , 122, 074105	3.9	55
281	A Relativistic Quantum-Chemical Analysis of the trans Influence on (1)H NMR Hydride Shifts in Square-Planar Platinum(II) Complexes. <i>Inorganic Chemistry</i> , <b>2015</b> , 54, 7199-208	5.1	54
280	Solvent effects and dynamic averaging of 195Pt NMR shielding in cisplatin derivatives. <i>Inorganic Chemistry</i> , <b>2011</b> , 50, 1723-32	5.1	54
279	Two-Component Relativistic Calculations of Electric-Field Gradients Using Exact Decoupling Methods: Spin-orbit and Picture-Change Effects. <i>Journal of Chemical Theory and Computation</i> , <b>2012</b> , 8, 4239-48	6.4	53
278	Calculation of molecular g-tensors using the zeroth-order regular approximation and density functional theory: expectation value versus linear response approaches. <i>Theoretical Chemistry Accounts</i> , <b>2011</b> , 129, 453-466	1.9	53
277	Is charge transfer transitions really too difficult for standard density functionals or are they just a problem for time-dependent density functional theory based on a linear response approach. <i>Computational and Theoretical Chemistry</i> , <b>2009</b> , 914, 106-109		53
276	Combined experimental and computational studies of heterobimetallic Bi-Rh paddlewheel carboxylates as catalysts for metal carbenoid transformations. <i>Journal of Organic Chemistry</i> , <b>2009</b> , 74, 6564-71	4.2	53
275	Density functional calculation of the electronic circular dichroism spectra of the transition metal complexes [M(phen)3]2+ (M = Fe, Ru, Os). <i>Journal of Physical Chemistry A</i> , <b>2005</b> , 109, 4836-46	2.8	53
274	Calculating NMR Chemical Shifts for Paramagnetic Metal Complexes from First-Principles. <i>Journal of Physical Chemistry Letters</i> , <b>2015</b> , 6, 2183-8	6.4	52
273	Importance of vibronic effects on the circular dichroism spectrum of dimethyloxirane. <i>Journal of Chemical Physics</i> , <b>2005</b> , 122, 234305	3.9	52
272	Temperature dependence of contact and dipolar NMR chemical shifts in paramagnetic molecules. <i>Journal of Chemical Physics</i> , <b>2015</b> , 142, 054108	3.9	51
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270	Atomic contributions from spin-orbit coupling to 29Si NMR chemical shifts in metallasilatrane complexes. <i>Chemistry - A European Journal</i> , <b>2012</b> , 18, 12803-13	4.8	51

- 269 Enhancement of IR and VCD intensities due to charge transfer. *Physical Chemistry Chemical Physics*, **2009**, 11, 1526-38 3.6 50
- 268 Spectral and structural characterization of amidate-bridged platinum-thallium complexes with strong metal-metal bonds. *Inorganic Chemistry*, **2006**, 45, 4526-36 5.1 50
- 267 Calculation of circular dichroism spectra from optical rotatory dispersion, and vice versa, as complementary tools for theoretical studies of optical activity using time-dependent density functional theory. *Journal of Chemical Physics*, **2006**, 125, 194110 3.9 50
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- 262 Calculation of static and dynamic linear magnetic response in approximate time-dependent density functional theory. *Journal of Chemical Physics*, **2007**, 126, 024101 3.9 48
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- 257 Single-ion 4f element magnetism: an ab-initio look at Ln(COT)<sub>2</sub>(-). *Dalton Transactions*, **2015**, 44, 19886-900 4.9 45
- 256 A quantum chemical approach to the design of chiral negative index materials. *Optics Express*, **2007**, 15, 5730-41 3.3 45
- 255 A density functional study of the <sup>13</sup>C NMR chemical shifts in functionalized single-walled carbon nanotubes. *Journal of the American Chemical Society*, **2007**, 129, 4430-9 16.4 45
- 254 Solvent effects on <sup>195</sup>Pt and <sup>205</sup>Tl NMR chemical shifts of the complexes [(NC)<sub>5</sub>Pt-Tl(CN)<sub>n</sub>]<sub>n</sub> (n=0-3), and [(NC)<sub>5</sub>Pt-Tl-Pt(CN)<sub>5</sub>]<sub>3</sub> studied by relativistic density functional theory. *Chemistry - A European Journal*, **2004**, 10, 2581-9 4.8 45
- 253 On the origin of the optical activity in the d-d transition region of tris-bidentate Co(III) and Rh(III) complexes. *Inorganic Chemistry*, **2003**, 42, 8902-10 5.1 45
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248	Variational versus Perturbational Treatment of Spin-Orbit Coupling in Relativistic Density Functional Calculations of Electronic g Factors: Effects from Spin-Polarization and Exact Exchange. <i>Journal of Chemical Theory and Computation</i> , <b>2013</b> , 9, 1052-67	6.4	42
247	Application of magnetically perturbed time-dependent density functional theory to magnetic circular dichroism. II. Calculation of A terms. <i>Journal of Chemical Physics</i> , <b>2008</b> , 128, 234102	3.9	41
246	Calculation of the Term of Magnetic Circular Dichroism. A Time-Dependent Density Functional Theory Approach. <i>Journal of Chemical Theory and Computation</i> , <b>2007</b> , 3, 434-47	6.4	41
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