

# Dirk R Rehn

## List of Publications by Year in descending order

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24  
papers

3,633  
citations

686830

13  
h-index

610482

24  
g-index

29  
all docs

29  
docs citations

29  
times ranked

4173  
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantum Monte Carlo formulation of the second order algebraic diagrammatic construction: Toward a massively parallel correlated excited state method. <i>Journal of Chemical Physics</i> , 2022, 156, 044105.	1.2	1
2	Exploring the accuracy and usefulness of semi-empirically scaled ADC schemes by blending second and third order terms. <i>Journal of Chemical Physics</i> , 2022, 156, 144101.	1.2	6
3	Electronic circular dichroism spectra using the algebraic diagrammatic construction schemes of the polarization propagator up to third order. <i>Journal of Chemical Physics</i> , 2021, 154, 064107.	1.2	12
4	Gator: A Python-driven program for spectroscopy simulations using correlated wave functions. <i>Wiley Interdisciplinary Reviews: Computational Molecular Science</i> , 2021, 11, e1528.	6.2	16
5	Unitary coupled-cluster approach for the calculation of core-excited states and x-ray absorption spectra. <i>Journal of Chemical Physics</i> , 2021, 154, 154108.	1.2	4
6	Ab Initio Excited-State Electronic Circular Dichroism Spectra Exploiting the Third-Order Algebraic-Diagrammatic Construction Scheme for the Polarization Propagator. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 5132-5137.	2.1	8
7	Analytical gradients for core-excited states in the algebraic diagrammatic construction (ADC) framework. <i>Journal of Chemical Physics</i> , 2021, 155, 044106.	1.2	4
8	Software for the frontiers of quantum chemistry: An overview of developments in the Q-Chem 5 package. <i>Journal of Chemical Physics</i> , 2021, 155, 084801.	1.2	518
9	adcc: A versatile toolkit for rapid development of algebraic diagrammatic construction methods. <i>Wiley Interdisciplinary Reviews: Computational Molecular Science</i> , 2020, 10, e1462.	6.2	38
10	Complex excited state polarizabilities in the ADC/ISR framework. <i>Journal of Chemical Physics</i> , 2020, 153, 074112.	1.2	9
11	Third-Order Unitary Coupled Cluster (UCC3) for Excited Electronic States: Efficient Implementation and Benchmarking. <i>Journal of Chemical Theory and Computation</i> , 2020, 16, 3654-3663.	2.3	11
12	Hermitian second-order methods for excited electronic states: Unitary coupled cluster in comparison with algebraic diagrammatic construction schemes. <i>Journal of Chemical Physics</i> , 2020, 152, 094106.	1.2	12
13	Analytic nuclear gradients of the algebraic-diagrammatic construction scheme for the polarization propagator up to third order of perturbation theory. <i>Journal of Chemical Physics</i> , 2019, 150, 174110.	1.2	8
14	Similarities and differences of the Lagrange formalism and the intermediate state representation in the treatment of molecular properties. <i>Journal of Chemical Physics</i> , 2019, 150, 164125.	1.2	15
15	Nuclear dynamics in resonant inelastic X-ray scattering and X-ray absorption of methanol. <i>Journal of Chemical Physics</i> , 2019, 150, 234301.	1.2	26
16	Algebraic-diagrammatic construction scheme for the polarization propagator including ground-state coupled-cluster amplitudes. II. Static polarizabilities. <i>Journal of Chemical Physics</i> , 2019, 150, 174105.	1.2	13
17	Algebraic-diagrammatic construction scheme for the polarization propagator including ground-state coupled-cluster amplitudes. I. Excitation energies. <i>Journal of Chemical Physics</i> , 2019, 150, 174104.	1.2	11
18	Static polarizabilities and C6 dispersion coefficients using the algebraic-diagrammatic construction scheme for the complex polarization propagator. <i>Journal of Chemical Physics</i> , 2017, 146, .	1.2	30

#	ARTICLE	IF	CITATIONS
19	Resonant Inelastic X-ray Scattering Amplitudes and Cross Sections in the Algebraic Diagrammatic Construction/Intermediate State Representation (ADC/ISR) Approach. <i>Journal of Chemical Theory and Computation</i> , 2017, 13, 5552-5559.	2.3	40
20	Accurate adiabatic singlet-triplet gaps in atoms and molecules employing the third-order spin-flip algebraic diagrammatic construction scheme for the polarization propagator. <i>Journal of Chemical Physics</i> , 2016, 145, 084102.	1.2	13
21	Benchmarking Post-Hartree-Fock Methods To Describe the Nonlinear Optical Properties of Polymethines: An Investigation of the Accuracy of Algebraic Diagrammatic Construction (ADC) Approaches. <i>Journal of Chemical Theory and Computation</i> , 2016, 12, 5465-5476.	2.3	13
22	Statistical analysis of electronic excitation processes: Spatial location, compactness, charge transfer, and electron-hole correlation. <i>Journal of Computational Chemistry</i> , 2015, 36, 1609-1620.	1.5	95
23	Advances in molecular quantum chemistry contained in the Q-Chem 4 program package. <i>Molecular Physics</i> , 2015, 113, 184-215.	0.8	2,561
24	Investigating excited electronic states using the algebraic diagrammatic construction (ADC) approach of the polarisation propagator. <i>Molecular Physics</i> , 2014, 112, 774-784.	0.8	169