

Andreas Dreuw

List of Publications by Citations

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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.

96
papers

1,483
citations

17
h-index

35
g-index

105
ext. papers

2,178
ext. citations

6.6
avg, IF

5.41
L-index

| # | Paper | IF | Citations |
|----|--|------|-----------|
| 96 | OpenMolcas: From Source Code to Insight. <i>Journal of Chemical Theory and Computation</i> , 2019 , 15, 5925-5964 | 39.4 | 310 |
| 95 | Simulating X-ray Spectroscopies and Calculating Core-Excited States of Molecules. <i>Chemical Reviews</i> , 2018 , 118, 7208-7248 | 68.1 | 140 |
| 94 | 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 | 3.9 | 115 |
| 93 | Benchmarking Excited-State Calculations Using Exciton Properties. <i>Journal of Chemical Theory and Computation</i> , 2018 , 14, 710-725 | 6.4 | 97 |
| 92 | Universal Exciton Size in Organic Polymers is Determined by Nonlocal Orbital Exchange in Time-Dependent Density Functional Theory. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 1205-1210 | 6.4 | 34 |
| 91 | Detailed Wave Function Analysis for Multireference Methods: Implementation in the Molcas Program Package and Applications to Tetracene. <i>Journal of Chemical Theory and Computation</i> , 2017 , 13, 5343-5353 | 6.4 | 32 |
| 90 | Interatomic and Intermolecular Coulombic Decay. <i>Chemical Reviews</i> , 2020 , 120, 11295-11369 | 68.1 | 31 |
| 89 | Characterizing Bonding Patterns in Diradicals and Triradicals by Density-Based Wave Function Analysis: A Uniform Approach. <i>Journal of Chemical Theory and Computation</i> , 2018 , 14, 638-648 | 6.4 | 29 |
| 88 | Quantum Chemical Strain Analysis For Mechanochemical Processes. <i>Accounts of Chemical Research</i> , 2017 , 50, 1041-1048 | 24.3 | 27 |
| 87 | 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 | 6.4 | 27 |
| 86 | Tailoring Ultrafast Singlet Fission by the Chemical Modification of Phenazinothiadiazoles. <i>Journal of the American Chemical Society</i> , 2019 , 141, 8834-8845 | 16.4 | 26 |
| 85 | A red-shifted two-photon-only caging group for three-dimensional photorelease. <i>Chemical Science</i> , 2018 , 9, 2797-2802 | 9.4 | 25 |
| 84 | Density-based descriptors and exciton analyses for visualizing and understanding the electronic structure of excited states. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 2843-2856 | 3.6 | 23 |
| 83 | The Spin-Flip Variant of the Algebraic-Diagrammatic Construction Yields the Correct Topology of S/S Conical Intersections. <i>Journal of Chemical Theory and Computation</i> , 2017 , 13, 4436-4441 | 6.4 | 22 |
| 82 | Lewis Acid Catalyzed Enantioselective Photochemical Rearrangements on the Singlet Potential Energy Surface. <i>Journal of the American Chemical Society</i> , 2019 , 141, 20053-20057 | 16.4 | 19 |
| 81 | Polarizable Embedding Combined with the Algebraic Diagrammatic Construction: Tackling Excited States in Biomolecular Systems. <i>Journal of Chemical Theory and Computation</i> , 2018 , 14, 4870-4883 | 6.4 | 18 |
| 80 | Computational design of a molecular triple photoswitch for wavelength-selective control. <i>Chemical Science</i> , 2018 , 9, 8665-8672 | 9.4 | 18 |

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| 79 | Efficient implementation of the non-Dyson third-order algebraic diagrammatic construction approximation for the electron propagator for closed- and open-shell molecules. <i>Journal of Chemical Physics</i> , 2019 , 150, 064108 | 3.9 | 17 |
| 78 | Quinoidal Azaacenes: 99 % Diradical Character. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 12336-12401 | 16.4 | 16 |
| 77 | Force-induced retro-click reaction of triazoles competes with adjacent single-bond rupture. <i>Chemical Science</i> , 2017 , 8, 5567-5575 | 9.4 | 16 |
| 76 | AFM-IR and IR-SNOM for the Characterization of Small Molecule Organic Semiconductors. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 5331-5344 | 3.8 | 16 |
| 75 | Simulating X-ray Emission Spectroscopy with Algebraic Diagrammatic Construction Schemes for the Polarization Propagator. <i>Journal of Chemical Theory and Computation</i> , 2019 , 15, 546-556 | 6.4 | 16 |
| 74 | Thiophenylazobenzene: An Alternative Photoisomerization Controlled by Lone-Pair-π Interaction. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 380-387 | 16.4 | 16 |
| 73 | Intermediate state representation approach to physical properties of molecular electron-detached states. I. Theory and implementation. <i>Journal of Chemical Physics</i> , 2020 , 152, 024113 | 3.9 | 15 |
| 72 | Tailoring the Properties of Optical Force Probes for Polymer Mechanochemistry. <i>Chemistry - A European Journal</i> , 2021 , 27, 15889-15897 | 4.8 | 15 |
| 71 | Implementation and Application of the Frozen Density Embedding Theory with the Algebraic Diagrammatic Construction Scheme for the Polarization Propagator up to Third Order. <i>Journal of Chemical Theory and Computation</i> , 2017 , 13, 4711-4725 | 6.4 | 14 |
| 70 | Homoconjugation and Intramolecular Charge Transfer in Extended Aromatic Triptycenes with Different π Planes. <i>Journal of Organic Chemistry</i> , 2020 , 85, 15256-15272 | 4.2 | 13 |
| 69 | Mechanism and cis/trans Selectivity of Vinylogous Nazarov-type [6π] Photocyclizations. <i>Journal of Organic Chemistry</i> , 2018 , 83, 964-972 | 4.2 | 13 |
| 68 | Twist and Return-Induced Ring Strain Triggers Quick Relaxation of a (Z)-Stabilized Cyclobisazobenzene. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 4776-4781 | 6.4 | 13 |
| 67 | CPPE: An Open-Source C++ and Python Library for Polarizable Embedding. <i>Journal of Chemical Theory and Computation</i> , 2019 , 15, 6154-6163 | 6.4 | 13 |
| 66 | Singlet Fission in Tetraaza-TIPS-Pentacene Oligomers: From fs Excitation to π Triplet Decay via the Biexcitonic State. <i>Journal of Physical Chemistry B</i> , 2019 , 123, 10780-10793 | 3.4 | 13 |
| 65 | XABOOM: An X-ray Absorption Benchmark of Organic Molecules Based on Carbon, Nitrogen, and Oxygen 1s-π* Transitions. <i>Journal of Chemical Theory and Computation</i> , 2021 , 17, 1618-1637 | 6.4 | 13 |
| 64 | 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 | 3.9 | 11 |
| 63 | 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 | 3.9 | 11 |
| 62 | Benchmark of Excitation Energy Shifts from Frozen-Density Embedding Theory: Introduction of a Density-Overlap-Based Applicability Threshold. <i>Journal of Chemical Theory and Computation</i> , 2018 , 14, 4028-4040 | 6.4 | 11 |

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| 61 | Probing competing relaxation pathways in malonaldehyde with transient X-ray absorption spectroscopy. <i>Chemical Science</i> , 2020 , 11, 4180-4193 | 9.4 | 11 |
| 60 | Electron-Hole Correlation as Unambiguous and Universal Classification for the Nature of Low-Lying π States of Nitrogen Heterocycles. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 6112-6117 | 6.4 | 10 |
| 59 | [6+1] Photocyclization to cis-Hexahydrocarbazol-4-ones: Substrate Modification, Mechanism, and Scope. <i>Journal of Organic Chemistry</i> , 2019 , 84, 1139-1153 | 4.2 | 10 |
| 58 | Evaluation of the restricted virtual space approximation in the algebraic-diagrammatic construction scheme for the polarization propagator to speed-up excited-state calculations. <i>Journal of Computational Chemistry</i> , 2017 , 38, 1528-1537 | 3.5 | 9 |
| 57 | Intermediate state representation approach to physical properties of molecular electron-detached states. II. Benchmarking. <i>Journal of Chemical Physics</i> , 2020 , 152, 024125 | 3.9 | 9 |
| 56 | 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 | 3.9 | 9 |
| 55 | Unitary coupled cluster ground- and excited-state molecular properties. <i>Journal of Chemical Physics</i> , 2020 , 153, 084112 | 3.9 | 8 |
| 54 | 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 | 3.9 | 8 |
| 53 | Mechanochemically Triggered Topology Changes in Expanded Porphyrins. <i>Chemistry - A European Journal</i> , 2021 , 27, 3397-3406 | 4.8 | 8 |
| 52 | Substituting Coumarins for Quinolinones: Altering the Cycloreversion Potential Energy Landscape. <i>Journal of Physical Chemistry A</i> , 2018 , 122, 7587-7597 | 2.8 | 8 |
| 51 | Thiophenylazobenzene: An Alternative Photoisomerization Controlled by Lone-Pair π Interaction. <i>Angewandte Chemie</i> , 2020 , 132, 388-395 | 3.6 | 7 |
| 50 | Extension of frozen-density embedding theory for non-variational embedded wavefunctions. <i>Journal of Chemical Physics</i> , 2019 , 150, 121101 | 3.9 | 6 |
| 49 | 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 | 6.4 | 6 |
| 48 | Meltdown! Local Heating by Decaying Excited Host Positive Polarons Triggers Aggregation Quenching in Blue PhOLEDs. <i>ChemPhysChem</i> , 2018 , 19, 2961-2966 | 3.2 | 6 |
| 47 | 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 | 3.9 | 6 |
| 46 | Spin the light off: rapid internal conversion into a dark doublet state quenches the fluorescence of an RNA spin label. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 26255-26264 | 3.6 | 6 |
| 45 | Evaluation of Single-Reference DFT-Based Approaches for the Calculation of Spectroscopic Signatures of Excited States Involved in Singlet Fission. <i>Journal of Physical Chemistry A</i> , 2020 , 124, 8446-8460 | 2.8 | 6 |
| 44 | Toward quantum-chemical method development for arbitrary basis functions. <i>Journal of Chemical Physics</i> , 2018 , 149, 084106 | 3.9 | 6 |

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| 43 | Molecular Mechanism of Flavin Photoprotection by Archaeal Dodecin: Photoinduced Electron Transfer and Mg-Promoted Proton Transfer. <i>Journal of Physical Chemistry B</i> , 2017 , 121, 10457-10466 | 3.4 | 5 |
| 42 | Optical Spectra and Fluorescence Quenching in Azaacenes Bearing Five-Membered Rings. <i>ChemPhotoChem</i> , 2019 , 3, 755-762 | 3.3 | 5 |
| 41 | Electronic Properties of 6,13-Diazapentacene Adsorbed on Au(111): A Quantitative Determination of Transport, Singlet and Triplet States, and Electronic Spectra. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 13196-13205 | 3.8 | 5 |
| 40 | The All-Seeing Eye of Resonant Auger Electron Spectroscopy: A Study on Aqueous Solution Using Tender X-rays. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 4457-4462 | 6.4 | 5 |
| 39 | Ultrafast Singlet Fission in Rigid Azaarene Dimers with Negligible Orbital Overlap. <i>Journal of Physical Chemistry B</i> , 2020 , 124, 9163-9174 | 3.4 | 5 |
| 38 | Intermediate state representation approach to physical properties of molecular electron-attached states: Theory, implementation, and benchmarking. <i>Journal of Chemical Physics</i> , 2021 , 154, 104117 | 3.9 | 5 |
| 37 | Modeling Molecules under Pressure with Gaussian Potentials. <i>Journal of Chemical Theory and Computation</i> , 2021 , 17, 583-597 | 6.4 | 5 |
| 36 | A theoretical study on the mechanistic highlights behind the Brønsted-acid dependent mer-fac isomerization of homoleptic carbenic iridium complexes for PhOLEDs. <i>Dalton Transactions</i> , 2017 , 46, 7194-7209 | 4.3 | 4 |
| 35 | Quinoidal Azaacenes: 99 % Diradical Character. <i>Angewandte Chemie</i> , 2020 , 132, 12496-12501 | 3.6 | 4 |
| 34 | Complex excited state polarizabilities in the ADC/ISR framework. <i>Journal of Chemical Physics</i> , 2020 , 153, 074112 | 3.9 | 4 |
| 33 | Gator: A Python-driven program for spectroscopy simulations using correlated wave functions. <i>Wiley Interdisciplinary Reviews: Computational Molecular Science</i> , 2021 , 11, e1528 | 7.9 | 4 |
| 32 | 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 | 3.9 | 4 |
| 31 | Algebraic diagrammatic construction for the polarisation propagator in combination with effective fragment potentials. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 3683-3694 | 3.6 | 3 |
| 30 | Regular Fluorescence of 4-Fluoro-N,N-dimethylaniline: No Charge Transfer and No Twisting. <i>Journal of Physical Chemistry A</i> , 2017 , 121, 5834-5841 | 2.8 | 3 |
| 29 | Quantum Chemistry Common Driver and Databases (QCDB) and Quantum Chemistry Engine (QCEngine): Automation and interoperability among computational chemistry programs. <i>Journal of Chemical Physics</i> , 2021 , 155, 204801 | 3.9 | 3 |
| 28 | Designing Force Probes Based on Reversible 6Eelectrocyclizations in Polyenes Using Quantum Chemical Calculations. <i>Journal of Organic Chemistry</i> , 2021 , 86, 7477-7489 | 4.2 | 3 |
| 27 | Regular and red-shifted fluorescence of the donor-acceptor compound 5-(1H-pyrrole-1-yl)thiophenecarbonitrile (TCN) is efficiently quenched by internal modes of thiophene. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 13951-13959 | 3.6 | 2 |
| 26 | Twisting and bending photo-excited phenylethynylbenzenes - a theoretical analysis. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 9974-9981 | 3.6 | 2 |

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| 25 | Vertical ionization potential benchmark for unitary coupled-cluster and algebraic-diagrammatic construction methods.. <i>Journal of Chemical Physics</i> , 2022 , 156, 054114 | 3.9 | 2 |
| 24 | Efficient Open-Source Implementations of Linear-Scaling Polarizable Embedding: Use Octrees to Save the Trees. <i>Journal of Chemical Theory and Computation</i> , 2021 , 17, 3445-3454 | 6.4 | 2 |
| 23 | Experimental and theoretical studies on gold(III) carbonyl complexes: reductive C,H- and C,C bond formation. <i>Dalton Transactions</i> , 2021 , 50, 8752-8760 | 4.3 | 2 |
| 22 | CAP/EA-ADC method for metastable anions: Computational aspects and application to π resonances of norbornadiene and 1,4-cyclohexadiene. <i>Journal of Chemical Physics</i> , 2021 , 155, 054103 | 3.9 | 2 |
| 21 | Isomerization Dynamics of Electronically Coupled but Thermodynamically Decoupled Bisazobenzenes. <i>ChemPhotoChem</i> , 2019 , 3, 411-417 | 3.3 | 1 |
| 20 | 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 | 3.9 | 1 |
| 19 | Theoretical analysis and comparison of unitary coupled-cluster and algebraic-diagrammatic construction methods for ionization.. <i>Journal of Chemical Physics</i> , 2022 , 156, 074104 | 3.9 | 1 |
| 18 | A Doubly Bridged Bis(phenylethynyl)benzene: Different from a Twisted Tolan. <i>Chemistry - A European Journal</i> , 2020 , 26, 16990-16993 | 4.8 | 1 |
| 17 | Influence of Core Halogenation on the Electronic Structure of Naphthothiadiazole Derivatives. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 6359-6366 | 3.8 | 1 |
| 16 | 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 | 3.9 | 1 |
| 15 | Embelin@ Versatile Photochemistry Makes It a Potent Photosensitizer for Photodynamic Therapy. <i>Journal of Physical Chemistry B</i> , 2021 , 125, 3527-3537 | 3.4 | 1 |
| 14 | 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 | 6.4 | 1 |
| 13 | Geometry dependence of excitonic couplings and the consequences for configuration-space sampling. <i>Journal of Computational Chemistry</i> , 2021 , 42, 1402-1418 | 3.5 | 1 |
| 12 | Rethinking Uncaging: A New Antiaromatic Photocage Driven by a Gain of Resonance Energy. <i>Chemistry - A European Journal</i> , 2021 , 27, 14121-14127 | 4.8 | 1 |
| 11 | 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 | 3.9 | 1 |
| 10 | Accurate Polarization-Resolved Absorption Spectra of Organic Semiconductor Thin Films Using First-Principles Quantum-Chemical Methods: Pentacene as a Case Study.. <i>Journal of Physical Chemistry Letters</i> , 2022 , 3726-3731 | 6.4 | 1 |
| 9 | The rupture mechanism of rubredoxin is more complex than previously thought. <i>Chemical Science</i> , 2020 , 11, 6036-6044 | 9.4 | 0 |
| 8 | (Dimesityl)boron Benzodithiophenes: Synthesis, Electrochemical, Photophysical and Theoretical Characterization.. <i>ChemistryOpen</i> , 2022 , 11, e202100265 | 2.3 | 0 |

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| 7 | Tailoring the Properties of Optical Force Probes for Polymer Mechanochemistry. <i>Chemistry - A European Journal</i> , 2021 , 27, 15827-15828 | 4.8 | ○ |
| 6 | Structure Set in Stone: Designing Rigid Linkers to Control the Efficiency of Intramolecular Singlet Fission. <i>Journal of Physical Chemistry B</i> , 2021 , 125, 13235-13245 | 3.4 | ○ |
| 5 | Benchmark of the Extension of Frozen-Density Embedding Theory to Nonvariational Correlated Methods: The Embedded-MP2 Case. <i>Journal of Chemical Theory and Computation</i> , 2021 , 17, 4049-4062 | 6.4 | ○ |
| 4 | Analytical gradients for core-excited states in the algebraic diagrammatic construction (ADC) framework. <i>Journal of Chemical Physics</i> , 2021 , 155, 044106 | 3.9 | ○ |
| 3 | Deciphering excited state properties utilizing algebraic diagrammatic construction schemes of decreasing order. <i>Journal of Computational Chemistry</i> , 2021 , 42, 793-800 | 3.5 | ○ |
| 2 | Excited state dynamics of the s-trans-1, 3-butadiene cation: An ab initio quantum dynamical analysis. <i>Journal of Chemical Physics</i> , 2019 , 151, 104105 | 3.9 | |
| 1 | Röntgenbild: Quinoidal Azaacenes: 99 % Diradical Character (Angew. Chem. 30/2020). <i>Angewandte Chemie</i> , 2020 , 132, 12644-12644 | 3.6 | |