# Scott A Reid

List of Publications by Year
in descending order

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Version: 2024-02-01

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|---|---|---|---|
| 115 papers | 1,852 citations | 304368 22 h-index | 377514 34 g-index |
| 117 all docs | 117 docs citations | 117 times ranked | 1328 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Implementation and evaluation of an adaptive online summer preparatory course for general chemistry: Whom does it benefit?. Chemistry Education Research and Practice, 2021, 22, 303-311. | 1.4 | 5 |
| 2 | Unraveling a trifecta of weak non-covalent interactions: The dissociation energy of the anisole-ammonia 1:1 complex. Chemical Physics Letters, 2021, 762, 138106. | 1.2 | 1 |
| 3 | Zeroing in on the best early-course metrics to identify at-risk students in general chemistry: an adaptive learning pre-assessment vs. traditional diagnostic exam. International Journal of Science Education, 2021, 43, 552-569. | 1.0 | 10 |
| 4 | Probing cooperativity in Câ€“Hâ‹¯N and Câ€“Hâ‹¯Ï€ interactions: Dissociation energies of anilineâ‹¯(CH4)n (n = 1, 2) van der Waals complexes from resonant ionization and velocity mapped ion imaging measurements. Journal of Chemical Physics, 2020, 153, 044303. | 1.2 | 6 |
| 5 | Restructuring a General College Chemistry Sequence Using the ACS Anchoring Concepts Content Map. Journal of Chemical Education, 2020, 97, 651-658. | 1.1 | 8 |
| 6 | Tribute to Hanna Reisler. Journal of Physical Chemistry A, 2019, 123, 6381-6383. | 1.1 | 0 |
| 7 | Charge-transfer or excimeric state? Exploring the nature of the excited state in cofacially arrayed polyfluorene derivatives. Journal of Photochemistry and Photobiology A: Chemistry, 2019, 374, 125-130. | 2.0 | 2 |
| 8 | Câ€“H/Ï€ and Câ€“Hâ€“O Interactions in Concert: A Study of the Anisoleâ€“Methane Complex using Resonant Ionization and Velocity Mapped Ion Imaging. Journal of Physical Chemistry A, 2019, 123, 2874-2880. | 1.1 | 10 |
| 9 | Strength of Ï€-Stacking, from Neutral to Cation: Precision Measurement of Binding Energies in an Isolated Ï€-Stacked Dimer. Journal of Physical Chemistry Letters, 2018, 9, 2058-2061. | 2.1 | 15 |
| 10 | Reactive pathways in the bromobenzene-ammonia dimer cation radical: Evidence for a roaming halogen radical. Journal of Molecular Structure, 2018, 1172, 113-118. | 1.8 | 2 |
| 11 | Vertical vs. adiabatic ionization energies in solution and gas-phase: probing ionization-induced reorganization in conformationally-mobile bichromophoric actuators using photoelectron spectroscopy, electrochemistry and theory. Physical Chemistry Chemical Physics, 2018, 20, 25615-25622. | 1.3 | 9 |
| 12 | Ï€-Ï€ stacking vs. Câ€“H/Ï€ interaction: Excimer formation and charge resonance stabilization in van der Waals clusters of 9,9â€²-dimethylfluorene. Journal of Chemical Physics, 2018, 149, 134314. | 1.2 | 10 |
| 13 | An Electronâ€Rich Calix[4]areneâ€Based Receptor with Unprecedented Binding Affinity for Nitric Oxide. Chemistry - A European Journal, 2018, 24, 17439-17443. | 1.7 | 6 |
| 14 | Game of Frontier Orbitals: A View on the Rational Design of Novel Charge-Transfer Materials. Journal of Physical Chemistry Letters, 2018, 9, 3978-3986. | 2.1 | 25 |
| 15 | Molecular Actuators in Action: Electron-Transfer-Induced Conformation Transformation in Cofacially Arrayed Polyfluorenes. Journal of Physical Chemistry Letters, 2018, 9, 4233-4238. | 2.1 | 7 |
| 16 | Spreading Electron Density Thin: Increasing the Chromophore Size in Polyaromatic Wires Decreases Interchromophoric Electronic Coupling. Journal of Physical Chemistry C, 2018, 122, 17668-17675. | 1.5 | 7 |
| 17 | The Role of Torsional Dynamics on Hole and Exciton Stabilization in Ï€â€Stacked Assemblies: Design of Rigid Torsionomers of a Cofacial Bifluorene. Angewandte Chemie - International Edition, 2018, 57, 8189-8193. | 7.2 | 16 |
| 18 | The Role of Torsional Dynamics on Hole and Exciton Stabilization in Ï€â€Stacked Assemblies: Design of Rigid Torsionomers of a Cofacial Bifluorene. Angewandte Chemie, 2018, 130, 8321-8325. | 1.6 | 4 |

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| 19 | Cofacially Arrayed Polyfluorenes: Spontaneous Formation of Ï€-Stacked Assemblies in the Gas Phase. Journal of Physical Chemistry Letters, 2017, 8, 5272-5276. | 2.1 | 9 |
| 20 | Effect of Facial Encumbrance on Excimer Formation and Charge Resonance Stabilization in Model Bichromophoric Assemblies. Journal of Physical Chemistry C, 2017, 121, 15580-15588. | 1.5 | 10 |
| 21 | A flipped classroom redesign in general chemistry. Chemistry Education Research and Practice, 2016, 17, 914-922. | 1.4 | 31 |
| 22 | First Experimental Evidence for the Diverse Requirements of Excimer vs Hole Stabilization in Ï€-Stacked Assemblies. Journal of Physical Chemistry Letters, 2016, 7, 3042-3045. | 2.1 | 14 |
| 23 | Twoâ€™s Company, Threeâ€™s a Crowd: Exciton Localization in Cofacially Arrayed Polyfluorenes. Journal of Physical Chemistry Letters, 2016, 7, 2915-2920. | 2.1 | 12 |
| 24 | Impact of the Flipped Classroom on Student Performance and Retention: A Parallel Controlled Study in General Chemistry. Journal of Chemical Education, 2016, 93, 13-23. | 1.1 | 188 |
| 25 | From Wires to Cables: Attempted Synthesis of 1,3,5-Trifluorenylcyclohexane as a Platform for Molecular Cables. Journal of Organic Chemistry, 2016, 81, 1627-1634. | 1.7 | 0 |
| 26 | Hydrogen-atom attack on phenol and toluene is ortho-directed. Physical Chemistry Chemical Physics, 2016, 18, 8625-8636. | 1.3 | 9 |
| 27 | Revisiting the Rennerâ€“Teller effect in the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:mrow><mml:msup><mml:mrow><mml:mover accent="true"><mml:mrow><mml:mi>X</mml:mi></mml:mrow><mml:mrow><mml:mo stretchy="true">â^¼</mml:mo></mml:mrow></mml:mover></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:ms state of CCN: Pulsed discharge-supersonic jet single vibronic level emission spectroscopy. Journal of | 0.4 | 3 |
| 28 | Towards a global model of spin-orbit coupling in the halocarbenes. Journal of Chemical Physics, 2015, 142, 214304. | 1.2 | 12 |
| 29 | When isomerisation is electron transfer: the intriguing story of the iso-halocarbons. International Reviews in Physical Chemistry, 2014, 33, 341-370. | 0.9 | 12 |
| 30 | Photoinduced Electron Transfer in Donorâ€“Acceptor Complexes of Ethylene with Molecular and Atomic Iodine. Journal of Physical Chemistry A, 2014, 118, 6838-6845. | 1.1 | 8 |
| 31 | Two roaming pathways in the photolysis of CH<sub>3</sub>CHO between 328 and 308 nm. Chemical Science, 2014, 5, 4633-4638. | 3.7 | 49 |
| 32 | Case of the Missing Isomer: Pathways for Molecular Elimination in the Photoinduced Decomposition of 1,1-Dibromoethane. Journal of Physical Chemistry A, 2013, 117, 11915-11923. | 1.1 | 10 |
| 33 | Ï€-Stacking, Câ€“H/Ï€, and Halogen Bonding Interactions in Bromobenzene and Mixed Bromobenzeneâ€“Benzene Clusters. Journal of Physical Chemistry A, 2013, 117, 13556-13563. | 1.1 | 41 |
| 34 | Photoisomerization and Photoinduced Reactions in Liquid CCl<sub>4</sub> and CHCl<sub>3</sub>. Journal of Physical Chemistry A, 2013, 117, 13388-13398. | 1.1 | 18 |
| 35 | Concerted and sequential pathways of proton-coupled electron transfer in hydrogen halide elimination. Chemical Physics Letters, 2013, 556, 35-38. | 1.2 | 8 |
| 36 | Reactive Pathways in the Chlorobenzeneâ€“Ammonia Dimer Cation Radical: New Insights from Experiment and Theory. Journal of Physical Chemistry A, 2013, 117, 12429-12437. | 1.1 | 7 |

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| 37 | Spectroscopy and dynamics of the predissociated, quasi-linear S2 state of chlorocarbene. Journal of Chemical Physics, 2012, 137, 104307. | 1.2 | 11 |
| 38 | On the electronic spectroscopy of the iso-polyhalomethanes. Chemical Physics Letters, 2012, 551, 64-67. | 1.2 | 1 |
| 39 | Product state and speed distributions in photochemical triple fragmentations. Faraday Discussions, 2012, 157, 227. | 1.6 | 27 |
| 40 | Photochemistry of Furyl- and Thienyldiazomethanes: Spectroscopic Characterization of Triplet 3-Thienylcarbene. Journal of the American Chemical Society, 2012, 134, 6443-6454. | 6.6 | 14 |
| 41 | Excitation Spectra of the Jet-Cooled 4-Phenylbenzyl and 4-(4â€²-Methylphenyl)benzyl Radicals. Journal of Physical Chemistry A, 2012, 116, 10780-10785. | 1.1 | 7 |
| 42 | Probing radical pathways in electrophilic addition of halogens: Classical vs. bridged intermediates. Chemical Physics Letters, 2012, 554, 86-89. | 1.2 | 7 |
| 43 | On Ï€-stacking, C-H/Ï€, and halogen bonding interactions in halobenzene clusters: Resonant two-photon ionization studies of chlorobenzene. Journal of Chemical Physics, 2012, 137, 184307. | 1.2 | 33 |
| 44 | Spectroscopic and computational studies of matrix-isolated iso-CXBr3 (X=F, Cl, Br): Structure, properties, and photochemistry of substituted iso-tribromomethanes. Journal of Molecular Structure, 2012, 1025, 61-68. | 1.8 | 6 |
| 45 | On the electronic spectroscopy of closed-shell cations derived from resonance-stabilized radicals: Insights from theory and Franck-Condon analysis. Astronomy and Astrophysics, 2012, 541, A8. | 2.1 | 8 |
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| 48 | Electronic spectroscopy of the transition of DCO and lifetimes and relative quantum yields of the state. Journal of Molecular Spectroscopy, 2011, 270, 33-39. | 0.4 | 1 |
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| 51 | Formation and relaxation dynamics of iso-CH2Clâ€“I in cryogenic matrices. Journal of Chemical Physics, 2011, 135, 114503. | 1.2 | 19 |
| 52 | Optical-optical double resonance spectroscopy of the quasi-linear S2 state of CHF and CDF. I. Spectroscopic analysis. Journal of Chemical Physics, 2011, 135, 104315. | 1.2 | 9 |
| 53 | Optical-optical double resonance spectroscopy of the quasi-linear S2 state of CHF and CDF. II. Predissociation and mode-specific dynamics. Journal of Chemical Physics, 2011, 135, 104316. | 1.2 | 10 |
| 54 | Spectroscopy and thermochemistry of a jet-cooled open-shell polyene: 1,4-pentadienyl radical. Journal of Chemical Physics, 2011, 135, 124306. | 1.2 | 12 |

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| 55 | Single vibronic level emission spectroscopy of the low-lying electronic states of NiI. Chemical Physics Letters, 2010, 497, 168-171. | 1.2 | 6 |
| 56 | Pulsed-jet discharge matrix isolation and computational study of CX2Br+ (X=H, F). Chemical Physics Letters, 2010, 484, 214-218. | 1.2 | 3 |
| 57 | Matrix isolation and computational studies of the CF2I radical. Chemical Physics Letters, 2010, 496, 68-73. | 1.2 | 7 |
| 58 | Matrix isolation and computational study of isodifluorodibromomethane (F2CBrâ€“Br): A route to Br2 formation in CF2Br2 photolysis. Journal of Chemical Physics, 2010, 132, 084503. | 1.2 | 19 |
| 59 | Isomerization as a Key Path to Molecular Products in the Gas-Phase Decomposition of Halons. Journal of Physical Chemistry Letters, 2010, 1, 3090-3095. | 2.1 | 23 |
| 60 | Spectroscopic and Computational Studies of the Laser Photolysis of Matrix Isolated 1,2-Dibromoethanes: Formation and Fate of the Bromoethyl Radicals. Journal of Physical Chemistry A, 2010, 114, 9919-9926. | 1.1 | 17 |
| 61 | Photoinduced Electron Transfer in a Prototypical Mulliken Donorâ^'Acceptor Complex: C<sub>2</sub>H<sub>4</sub>Â·Â·Â·Br<sub>2</sub>. Journal of Physical Chemistry Letters, 2010, 1, 2618-2621. | 2.1 | 9 |
| 62 | Direct Observation of Electron-Transfer-Induced Conformational Transformation (Molecular) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 467 T 14592-14595. | 1.2 | 12 |
| 63 | Theoretical and Experimental Spectroscopy of the S<sub>2</sub> State of CHF and CDF: Dynamically Weighted Multireference Configuration Interaction Calculations for High-Lying Electronic States. Journal of Physical Chemistry Letters, 2010, 1, 641-646. | 2.1 | 57 |
| 64 | Characterization of iso-CF2I2 in frequency and ultrafast time domains. Journal of Chemical Physics, 2010, 132, 124501. | 1.2 | 29 |
| 65 | Comment on â€œFacile strategy and mechanism for orthorhombic SnO2 thin filmsâ€•[Appl. Phys. Lett. 89, 231902 (2006)]. Applied Physics Letters, 2009, 94, 186103. | 1.5 | 1 |
| 66 | The halocarbenes: model systems for understanding the spectroscopy, dynamics and chemistry of carbenes. International Reviews in Physical Chemistry, 2009, 28, 435-480. | 0.9 | 45 |
| 67 | Fluorescence Excitation and Emission Spectroscopy of the Xl̃ƒ<sup>1</sup>Aâ€² â†' Ãƒ<sup>1</sup>Aâ€²â€² System of CHI and CDI. Journal of Physical Chemistry A, 2009, 113, 13407-13412. | 1.1 | 6 |
| 68 | First observation of the elusive iodocarbene: ground state multiplicity and singletâ€“triplet gap of CHI. Physical Chemistry Chemical Physics, 2008, 10, 6090. | 1.3 | 15 |
| 69 | Stimulated Emission Pumping Spectroscopyof the [Xl̃ƒ]Aâ€˜ State of CHF. Journal of Physical Chemistry A, 2008, 112, 466-471. | 1.1 | 16 |
| 70 | Unraveling the Ãƒ<sup>1</sup>B<sub>1</sub> â†•Xl̃ƒ<sup>1</sup>A<sub>1</sub> Spectrum of CCl<sub>2</sub>: The Rennerâ^'Teller Effect, Barrier to Linearity, and Vibrational Analysis Using an Effective Polyad Hamiltonian. Journal of Physical Chemistry A, 2008, 112, 11355-11362. | 1.1 | 13 |
| 71 | High resolution probe of spin-orbit coupling and the singlet-triplet gap in chlorocarbene. Journal of Chemical Physics, 2008, 128, 171101. | 1.2 | 23 |
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| 74 | Electronic Spectroscopy of an Isolated Halocarbocation:â€‰ The Iodomethyl Cation CH<sub>2</sub>I<sup>+</sup> and Its Deuterated Isotopomers. Journal of Physical Chemistry A, 2007, 111, 10562-10566. | 1.1 | 9 |
| 75 | Single vibronic level emission spectroscopy and fluorescence lifetime of the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si7.gif" display="inline" overflow="scroll"><mml:mrow><mml:msup><mml:mrow><mml:mover accent="true"><mml:mrow><mml:mtext>B</mml:mtext></mml:mrow><mml:mrow><mml:mo stretchy="true">â^¼</mml:mo></mml:mrow></mml:mover></mml:mrow><mml:mrow><mml:mn>1</mml:mn></mml:mrow></mml:msup></mml:mrow></mml:math> state of CaOH. Chemical Physics Letters, 2007, 449, 282-285. | 1.2 | 11 |
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| 87 | A DFT study of the hyperfine coupling constants of triplet carbenes and biradicals. Computational and Theoretical Chemistry, 2005, 725, 45-53. | 1.5 | 16 |
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| 90 | Conformational Changes in the Ligand-binding Domain of a Functional Ionotropic Glutamate Receptor. Journal of Biological Chemistry, 2005, 280, 8633-8636. | 1.6 | 33 |

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| 97 | Fluorescence excitation spectroscopy of the system of jet-cooled NH2 in the region 2900â€“4300Ã…. Journal of Molecular Spectroscopy, 2003, 219, 37-44. | 0.4 | 16 |
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| 99 | On the energy dependence of the Zeeman and hyperfine parameters in the state of OH and OD. Chemical Physics, 2003, 291, 61-72. | 0.9 | 18 |
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| 103 | 6P7/2-Excited-State Decay Mechanism and Energy-Transfer Processes in KMgF3:Eu2+and KMgF3:Euâ"X (X =) Tj ETQq1 1 0.784314 rg | 3.2 | 8 |
| 104 | Study of energy transfer in KMgF3:Euâ€“X (X=Gd, Cr, Ce) by the decay model of 6P7/2 exited state of Eu2+. Chemical Physics Letters, 2001, 335, 17-22. | 1.2 | 10 |
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| 109 | Unimolecular Reaction of NO2:Â Overlapping Resonances, Fluctuations, and the Transition State. The Journal of Physical Chemistry, 1996, 100, 474-487. | 2.9 | 63 |
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| 111 | State-specific photofragment yield spectroscopy of jet-cooled methyl nitrite. Chemical Physics Letters, 1993, 209, 22-28. | 1.2 | 15 |
| 112 | Interaction between overall and internal rotation below, near, and above the summit of a torsional barrier: 1nÏ€* methylglyoxal. Journal of Chemical Physics, 1992, 97, 2338-2346. | 1.2 | 7 |
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| 114 | Intramolecular vibrational state mixing in glyoxal by stimulated emission pumping spectroscopy. Chemical Physics Letters, 1987, 139, 525-527. | 1.2 | 15 |
| 115 | ESR spectra of a seven-coordinated pentagonal bipyramidal manganese(II) complex. Inorganica Chimica Acta, 1985, 105, L13-L14. | 1.2 | 3 |