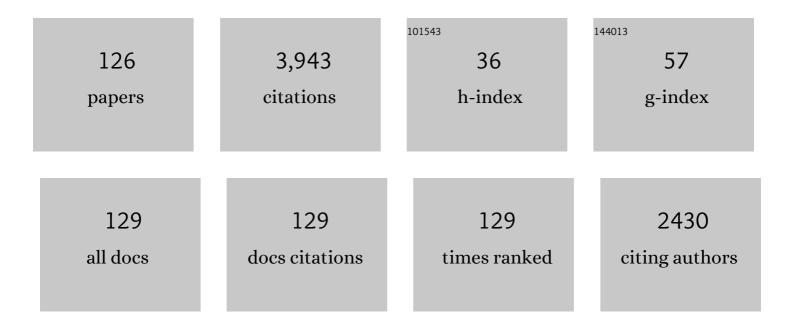
Simon North

List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|---|------|-----------|
| 1 | A Two Transition State Model for Radicalâ~'Molecule Reactions:Â A Case Study of the Addition of OH to C2H4. Journal of Physical Chemistry A, 2005, 109, 6031-6044. | 2.5 | 218 |
| 2 | Evidence for stepwise dissociation dynamics in acetone at 248 and 193 nm. Journal of Chemical Physics, 1995, 102, 4447-4460. | 3.0 | 198 |
| 3 | The multiplexed chemical kinetic photoionization mass spectrometer: A new approach to isomer-resolved chemical kinetics. Review of Scientific Instruments, 2008, 79, 104103. | 1.3 | 190 |
| 4 | The ultraviolet photodissociation dynamics of pyrrole. Chemical Physics, 1994, 187, 35-47. | 1.9 | 125 |
| 5 | No Straight Path: Roaming in Both Ground- and Excited-State Photolytic Channels of NO ₃ → NO + O ₂ . Science, 2012, 335, 1075-1078. | 12.6 | 112 |
| 6 | Primary and secondary processes in the 193 nm photodissociation of vinyl chloride. Journal of Chemical Physics, 1998, 108, 5414-5425. | 3.0 | 101 |
| 7 | Quantification of Hydroxycarbonyls from OHâ^'Isoprene Reactions. Journal of the American Chemical Society, 2004, 126, 2686-2687. | 13.7 | 91 |
| 8 | Photodissociation dynamics of CH2BrCl studied using resonance enhanced multiphoton ionization (REMPI) with time-of-flight mass spectrometry. Journal of Chemical Physics, 1999, 111, 5771-5779. | 3.0 | 81 |
| 9 | Determination of the barrier height to CH3CO dissociation. Chemical Physics Letters, 1994, 224, 38-42. | 2.6 | 77 |
| 10 | Hydroxy Peroxy Nitrites and Nitrates from OH Initiated Reactions of Isoprene. Journal of the American Chemical Society, 2002, 124, 9600-9605. | 13.7 | 72 |
| 11 | A Two Transition State Model for Radicalâ^'Molecule Reactions:Â Applications to Isomeric Branching in the OHâ^'Isoprene Reaction. Journal of Physical Chemistry A, 2007, 111, 5582-5592. | 2.5 | 71 |
| 12 | Theoretical Study of OHâ^'O2â^'lsoprene Peroxy Radicals. Journal of Physical Chemistry A, 2001, 105, 471-477. | 2.5 | 69 |
| 13 | Nonintuitive Asymmetry in the Three-Body Photodissociation of CH3COCN. Journal of Physical Chemistry A, 1997, 101, 9224-9232. | 2.5 | 68 |
| 14 | Kinetic studies of OH-initiated reactions of isoprene. Journal of Geophysical Research, 2000, 105, 24627-24635. | 3.3 | 68 |
| 15 | Experimental and Computational Study of the OHâ^'Isoprene Reaction:Â Isomeric Branching and Low-Pressure Behavior. Journal of Physical Chemistry A, 2000, 104, 6609-6616. | 2.5 | 66 |
| 16 | Coherence brightened laser source for atmospheric remote sensing. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 15185-15190. | 7.1 | 65 |
| 17 | Simultaneous velocity and temperature measurements in gaseous flow fields using the VENOM technique. Optics Letters, 2011, 36, 196. | 3.3 | 64 |
| 18 | OH/OD Initiated Oxidation of Isoprene in the Presence of O2 and NO. Journal of Physical Chemistry A, 2004, 108, 10688-10697. | 2.5 | 63 |

| # | Article | IF | CITATIONS |
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| 19 | Theoretical study of isomeric branching in the isoprene–OH reaction: implications to final product yields in isoprene oxidation. Chemical Physics Letters, 2000, 326, 109-114. | 2.6 | 62 |
| 20 | Evidence of Roaming Dynamics and Multiple Channels for Molecular Elimination in NO ₃ Photolysis. Journal of Physical Chemistry Letters, 2010, 1, 2455-2458. | 4.6 | 62 |
| 21 | TRANSIENTLASERFREQUENCYMODULATIONSPECTROSCOPY. Annual Review of Physical Chemistry, 2000, 51, 243-274. | 10.8 | 60 |
| 22 | Computationally Efficient Methodology to Calculate Câ^'H and Câ^'X (X = F, Cl, and Br) Bond Dissociation Energies in Haloalkanes. Journal of Physical Chemistry A, 2000, 104, 436-442. | 2.5 | 60 |
| 23 | Molecular Tagging Using Vibrationally Excited Nitric Oxide in an Underexpanded Jet Flowfield. AIAA Journal, 2009, 47, 2597-2604. | 2.6 | 60 |
| 24 | Primary and Secondary Processes in the Photodissociation of CHBr3â€. Journal of Physical Chemistry A, 2000, 104, 10085-10091. | 2.5 | 59 |
| 25 | Two-component molecular tagging velocimetry utilizing NO fluorescence lifetime and NO_2 photodissociation techniques in an underexpanded jet flowfield. Applied Optics, 2009, 48, 4414. | 2.1 | 58 |
| 26 | Vector signatures of adiabatic and diabatic dynamics in the photodissociation of ICN. Journal of Chemical Physics, 1999, 111, 6735-6749. | 3.0 | 55 |
| 27 | Photodissociation of Bromoform at 248 nm:  Single and Multiphoton Processes. Journal of Physical Chemistry A, 2004, 108, 1482-1488. | 2.5 | 53 |
| 28 | The near ultraviolet photodissociation dynamics of azomethane. Journal of Chemical Physics, 1993, 99, 4423-4429. | 3.0 | 49 |
| 29 | Line shape analysis of Doppler broadened frequencyâ€modulated line spectra. Journal of Chemical Physics, 1996, 104, 2129-2135. | 3.0 | 49 |
| 30 | Adiabatic and diabatic dynamics in the photodissociation of CH2BrCl. Physical Chemistry Chemical Physics, 2000, 2, 3785-3790. | 2.8 | 47 |
| 31 | Vector and scalar correlations in statistical dissociation: The photodissociation of NCCN at 193 nm. Journal of Chemical Physics, 1997, 106, 60-76. | 3.0 | 46 |
| 32 | Simultaneous velocity and temperature measurements in gaseous flowfields using the vibrationally excited nitric oxide monitoring technique: a comprehensive study. Applied Optics, 2012, 51, 1216. | 1.8 | 40 |
| 33 | Vibrationally excited NO tagging by NO(A^2Σ^+) fluorescence and quenching for simultaneous velocimetry and thermometry in gaseous flows. Optics Letters, 2014, 39, 2771. | 3.3 | 39 |
| 34 | Quantum phase space theory for the calculation of vâ‹j vector correlations. Journal of Chemical Physics, 1996, 104, 1864-1874. | 3.0 | 37 |
| 35 | Unraveling the dissociation of dimethyl sulfoxide following absorption at 193 nm. Journal of Chemical Physics, 1997, 106, 539-550. | 3.0 | 37 |
| 36 | Laser Transient Absorption Spectroscopy of Bromomethylene. Journal of Molecular Spectroscopy, 1998, 188, 68-77. | 1.2 | 37 |

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| 37 | Photodissociation of acrylonitrile at 193 nm: A photofragment translational spectroscopy study using synchrotron radiation for product photoionization. Journal of Chemical Physics, 1998, 108, 5784-5794. | 3.0 | 35 |
| 38 | lon Imaging Study of NO ₃ Radical Photodissociation Dynamics: Characterization of Multiple Reaction Pathways. Journal of Physical Chemistry A, 2011, 115, 3218-3226. | 2.5 | 34 |
| 39 | Photodissociation dynamics of the methyl radical 3sRydberg state. Journal of Chemical Physics, 1995, 102, 792-798. | 3.0 | 32 |
| 40 | Experimental study of hydroxyalkyl peroxy radicals from OH-initiated reactions of isoprene. Chemical Physics Letters, 2001, 343, 49-54. | 2.6 | 32 |
| 41 | Oxidation mechanism of δ-hydroxyisoprene alkoxy radicals: hydrogen abstraction versus 1,5 H-shift. Chemical Physics Letters, 2003, 369, 204-213. | 2.6 | 31 |
| 42 | Multiphoton ionization of phenol in nonaqueous solutions: characterization of the cation and ion-molecule chemistry. The Journal of Physical Chemistry, 1991, 95, 5186-5190. | 2.9 | 30 |
| 43 | The unimolecular dissociation of vinylcyanide: A theoretical investigation of a complex multichannel reaction. Journal of Chemical Physics, 1999, 110, 2862-2871. | 3.0 | 30 |
| 44 | A unified model for simulating liquid and gas phase, intermolecular energy transfer: N2 + C6F6 collisions. Journal of Chemical Physics, 2014, 140, 194103. | 3.0 | 30 |
| 45 | Anisotropy of photofragment recoil as a function of dissociation lifetime, excitation frequency, rotational level, and rotational constant. Journal of Chemical Physics, 2006, 125, 133316. | 3.0 | 29 |
| 46 | Calibration of an Actively Controlled Expansion Hypersonic Wind Tunnel. , 2010, , . | | 29 |
| 47 | Photofragment translational spectroscopy with state-selective "universal detection:―The ultraviolet photodissociation of CS2. Journal of Chemical Physics, 2000, 112, 5301-5307. | 3.0 | 28 |
| 48 | lon imaging study of IO radical photodissociation: Accurate bond dissociation energy determination. Chemical Physics Letters, 2008, 457, 303-306. | 2.6 | 28 |
| 49 | The radical photodissociation channel of acrylonitrile. Chemical Physics Letters, 1996, 263, 148-153. | 2.6 | 27 |
| 50 | Investigation of the Atmospheric Oxidation Pathways of Bromoform and Dibromomethane:Â Initiation via UV Photolysis and Hydrogen Abstraction. Journal of Physical Chemistry A, 2004, 108, 7247-7252. | 2.5 | 26 |
| 51 | Isomer-Selective Study of the OH-Initiated Oxidation of Isoprene in the Presence of O ₂ and NO: 2. The Major OH Addition Channel. Journal of Physical Chemistry A, 2010, 114, 2553-2560. | 2.5 | 26 |
| 52 | CN radical reaction rate measurements by time-resolved FM spectroscopy. , 1997, 29, 127-129. | | 24 |
| 53 | Decomposition Products of 50 Mass% Hydroxylamine/Water Under Runaway Reaction Conditions. Chemical Engineering Research and Design, 2003, 81, 121-124. | 5.6 | 24 |
| 54 | Photodissociation of the BrO radical using velocity map ion imaging: Excited state dynamics and accurate D00(BrO) evaluation. Journal of Chemical Physics, 2006, 124, 134304. | 3.0 | 24 |

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| 55 | Stereodynamics of multistate roaming. Physical Chemistry Chemical Physics, 2012, 14, 6733. | 2.8 | 23 |
| 56 | The near ultraviolet dissociation dynamics of azomethane: Correlated V-T energy disposal and product appearance times. Journal of Chemical Physics, 1998, 109, 7238-7245. | 3.0 | 22 |
| 57 | Cyclization reactions in isoprene derived \hat{l}^2 -hydroxy radicals: implications for the atmospheric oxidation mechanism. Physical Chemistry Chemical Physics, 2003, 5, 3638-3642. | 2.8 | 22 |
| 58 | Isomer-Selective Study of the OH Initiated Oxidation of Isoprene in the Presence of O ₂ and NO. I. The Minor Inner OH-Addition Channel. Journal of Physical Chemistry A, 2010, 114, 904-912. | 2.5 | 22 |
| 59 | The fate of the hydroxyalkoxy radical in the OH-initiated oxidation of isoprene. International Journal of Chemical Kinetics, 2002, 34, 255-261. | 1.6 | 20 |
| 60 | A method for the determination of speed-dependent semi-classical vector correlations from sliced image anisotropies. Journal of Chemical Physics, 2011, 135, 094201. | 3.0 | 20 |
| 61 | Photodissociation dynamics of OCS near 214 nm using ion imaging. Journal of Chemical Physics, 2016, 145, 024310. | 3.0 | 20 |
| 62 | Vector correlations in the 308 nm photodissociation of ICN. Chemical Physics Letters, 1997, 276, 103-109. | 2.6 | 19 |
| 63 | Experimental Study of NO Reaction with Isoprene Hydroxyalkyl Peroxy Radicals. Journal of Physical Chemistry A, 2003, 107, 11013-11019. | 2.5 | 19 |
| 64 | Development of a miniature calorimeter for identification and detection of explosives and other energetic compounds. Journal of Hazardous Materials, 2007, 142, 662-668. | 12.4 | 19 |
| 65 | On the Design and Calibration of an Actively Controlled Expansion Hypersonic Wind Tunnel. , 2009, , . | | 19 |
| 66 | Repetitively Pulsed Hypersonic Flow Apparatus for Diagnostic Development. AIAA Journal, 2012, 50, 691-697. | 2.6 | 19 |
| 67 | The ultraviolet photodissociation of jet-cooled ClO and BrO radicals. Journal of Chemical Physics, 2002, 116, 4176-4183. | 3.0 | 18 |
| 68 | Theoretical Study of the Alkoxy Radicals Derived from Isoprene:Â Pressure- and Temperature-Dependent Decomposition Rates. Journal of Physical Chemistry A, 2003, 107, 6408-6414. | 2.5 | 18 |
| 69 | Low-temperature collisional quenching of NO A2Σ+(v′ = 0) by NO(X2Î) and O2 between 34 and 109 K. Journal of Chemical Physics, 2014, 141, 074313. | 3.0 | 18 |
| 70 | Investigation of the Atmospheric Oxidation Pathways of Bromoform:  Initiation via OH/Cl Reactions. Journal of Physical Chemistry A, 2002, 106, 6395-6400. | 2.5 | 17 |
| 71 | The UV photodissociation dynamics of ClO radical using velocity map ion imaging. Journal of Chemical Physics, 2005, 123, 174303. | 3.0 | 17 |
| 72 | Measuring the internal energies of species emitted from hypervelocity nanoprojectile impacts on surfaces using recalibrated benzylpyridinium probe ions. Journal of Chemical Physics, 2013, 138, 214301. | 3.0 | 17 |

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| 73 | Ene-diamine versus Imine-amine Isomeric Preferences. Journal of Organic Chemistry, 2005, 70, 8409-8416. | 3.2 | 15 |
| 74 | Radiofrequency plasma stabilization of a low-Reynolds-number channel flow. Journal of Fluid Mechanics, 2014, 748, 663-691. | 3.4 | 15 |
| 75 | Non-statistical intermolecular energy transfer from vibrationally excited benzene in a mixed nitrogen-benzene bath. Journal of Chemical Physics, 2018, 149, 134101. | 3.0 | 15 |
| 76 | Theoretical Calculation of ClONO2and BrONO2Bond Dissociation Energies. Journal of Physical Chemistry A, 2003, 107, 888-896. | 2.5 | 14 |
| 77 | Design and characterization of late-mixing flash pyrolytic reactor molecular-beam source. Review of Scientific Instruments, 2005, 76, 124101. | 1.3 | 14 |
| 78 | The unimolecular dissociation of 2-butenenitrile: measurements of the CN elimination channel using FM Doppler spectroscopy. Chemical Physics, 2000, 254, 309-317. | 1.9 | 13 |
| 79 | Simultaneous three-dimensional velocimetry and thermometry in gaseous flows using the stereoscopic vibrationally excited nitric oxide monitoring technique. Optics Letters, 2016, 41, 1376. | 3.3 | 13 |
| 80 | Roaming in the dark. Nature Chemistry, 2011, 3, 504-505. | 13.6 | 12 |
| 81 | The ultraviolet photodissociation dynamics of IBr studied using state-selective translational spectroscopy. Chemical Physics, 1999, 249, 237-248. | 1.9 | 11 |
| 82 | Diode laser measurements of CD3 quantum yields and internal energy for the dissociation of dimethyl sulfoxide-d6. Journal of Chemical Physics, 1997, 106, 1346-1352. | 3.0 | 10 |
| 83 | The OH-Initiated Oxidation of 1,3-Butadiene in the Presence of O2and NO:Â A Photolytic Route To Study Isomeric Selective Reactivity. Journal of Physical Chemistry A, 2005, 109, 7915-7922. | 2.5 | 10 |
| 84 | Algebraic turbulent energy flux models for hypersonic shear flows. Progress in Aerospace Sciences, 2010, 46, 49-61. | 12.1 | 10 |
| 85 | OH initiated oxidation of 1,3-butadiene in the presence of O2 and NO. Chemical Physics Letters, 2010, 494, 8-13. | 2.6 | 10 |
| 86 | A method to analyze molecular tagging velocimetry data using the Hough transform. Review of Scientific Instruments, 2015, 86, 105106. | 1.3 | 10 |
| 87 | Origin of the "odd―behavior in the ultraviolet photochemistry of ozone. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 21065-21069. | 7.1 | 10 |
| 88 | Quantum yields and energy partitioning in the ultraviolet photodissociation of 1,2 dibromo-tetrafluoroethane (Halon-2402). Journal of Chemical Physics, 2000, 113, 7149-7157. | 3.0 | 9 |
| 89 | Vibrational state-dependent predissociation dynamics of CIO (A2Î3/2): Insight from correlated fine structure branching ratios. Physical Chemistry Chemical Physics, 2006, 8, 2964-2971. | 2.8 | 9 |
| 90 | Photofragment vector correlations as a probe of <i>K</i> â€scrambling in unimolecular dissociation. Zeitschrift Fur Elektrotechnik Und Elektrochemie, 1997, 101, 459-464. | 0.9 | 8 |

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| 91 | Probing the nature of the K-rotor in unimolecular reactions: Scalar and vector correlations in the photodissociation of NCNO. Journal of Chemical Physics, 2002, 116, 7027-7034. | 3.0 | 8 |
| 92 | Correlated fine structure branching ratios arising from state-selected predissociation of ClO (A2Î3/2). Physical Chemistry Chemical Physics, 2009, 11, 4770. | 2.8 | 8 |
| 93 | Scientists' Perspective on Introducing Authentic Inquiry to High School Teachers During an Intensive Threeâ€Week Summer Professional Development Experience. School Science and Mathematics, 2009, 109, 162-174. | 0.9 | 8 |
| 94 | Resolving the energy and temperature dependence of C6H6â^— collisional relaxation via time-dependent bath temperature measurements. Journal of Chemical Physics, 2016, 145, 014308. | 3.0 | 8 |
| 95 | Vector correlations in the 308 nm photodissociation of ICN. Chemical Physics Letters, 1997, 276, 103-109. | 2.6 | 8 |
| 96 | Multiphoton-induced chemistry of phenol in hexane at 266 nm. Chemical Physics Letters, 1990, 166, 167-172. | 2.6 | 7 |
| 97 | Temperature-dependent photodissociation dynamics of ICN at 262 nm. Chemical Physics Letters, 2001, 334, 47-54. | 2.6 | 7 |
| 98 | Photodissociation of ClONO2at 235 nm:Â Final Product Yields and Energy Partitioning. Journal of Physical Chemistry A, 2002, 106, 1004-1010. | 2.5 | 7 |
| 99 | The three-body dissociation dynamics of Cl2O at 248 and 193nm. Journal of Photochemistry and Photobiology A: Chemistry, 2010, 209, 56-60. | 3.9 | 7 |
| 100 | OH Radical Initiated Oxidation of 1,3-Butadiene: Isomeric Selective Study of the Dominant Addition Channel. Journal of Physical Chemistry A, 2010, 114, 5299-5305. | 2.5 | 6 |
| 101 | A method of extracting speed-dependent vector correlations from 2 + 1 REMPI ion images. Journal of Chemical Physics, 2017, 147, 013947. | 3.0 | 6 |
| 102 | Nascent O2 (<i>a</i> â€^1Δg, <i>v</i> = 0, 1) rotational distributions from the photodissociation of jet-cooled O3 in the Hartley band. Journal of Chemical Physics, 2018, 149, 134309. | 3.0 | 6 |
| 103 | Evidence for lambda doublet propensity in the UV photodissociation of ozone. Journal of Chemical Physics, 2019, 151, 224302. | 3.0 | 6 |
| 104 | Comparison of intermolecular energy transfer from vibrationally excited benzene in mixed nitrogen–benzene baths at 140 K and 300 K. Journal of Chemical Physics, 2020, 153, 144116. | 3.0 | 6 |
| 105 | Separation of spin–orbit coupled metastable states of Kr+ and Xe+ by ion mobility. Journal of Chemical Physics, 2001, 114, 1709-1715. | 3.0 | 5 |
| 106 | The role of triplet states in the long wavelength absorption region of bromine nitrate. Journal of Chemical Physics, 2003, 119, 7864-7870. | 3.0 | 5 |
| 107 | A New Java Program for Graphical Illustration of the Franckâ^'Condon Principle: Application to the I ₂ Spectroscopy Experiment in the Undergraduate Physical Chemistry Laboratory. Journal of Chemical Education, 2010, 87, 345-345. | 2.3 | 5 |
| 108 | The role of near resonance electronic energy transfer on the collisional quenching of NO (A2Σ+) by C6H6 and C6F6 at low temperature. Chemical Physics, 2018, 501, 86-92. | 1.9 | 5 |

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| 109 | Comment on "energy partitioning in photodissociation of methyl, ethyl, and n-propyl iodides at 304 nm― Chemical Physics, 1996, 211, 515-516. | 1.9 | 4 |
| 110 | Nitric Oxide Laser-Induced Fluorescence Imaging Methods and Their Application to Study High-Speed Flows. , 2018, , 599-630. | | 3 |
| 111 | Towards Vibrationally Excited Nitric Oxide Monitoring (VENOM) in a Laminar, Hypersonic Boundary Layer. , 2020, , . | | 3 |
| 112 | Temperature perturbation related to the invisible ink vibrationally excited nitric oxide monitoring (VENOM) technique: a simulation study. Applied Optics, 2019, 58, 2702. | 1.8 | 3 |
| 113 | Dynamics and vector correlations of vacuum ultraviolet (VUV) photodissociation of CO ₂ at 155 nm. Physical Chemistry Chemical Physics, 2022, 24, 2592-2600. | 2.8 | 3 |
| 114 | Uv Multiphoton Induced Chemistry of Nitrobenzene in Solution. Laser Chemistry, 1990, 10, 177-184. | 0.5 | 2 |
| 115 | Treatment of theK-Quantum Number in Unimolecular Reaction Theory:Â Insights from Product Correlations. Journal of the American Chemical Society, 2002, 124, 14472-14477. | 13.7 | 2 |
| 116 | Ion imaging studies of ClONO2 photodissociation: Primary branching ratios and secondary dissociation. Chemical Physics, 2009, 364, 90-97. | 1.9 | 2 |
| 117 | Photodissociation dynamics of Cl2O at 235nm using velocity map ion imaging. Journal of Photochemistry and Photobiology A: Chemistry, 2011, 221, 123-127. | 3.9 | 2 |
| 118 | Vibrational state-selected photodissociation of ClO+. Chemical Physics, 2012, 408, 43-49. | 1.9 | 2 |
| 119 | Unimolecular Dissociation Reactions of Methyl Benzoate Radical Cation. Journal of Physical Chemistry A, 2008, 112, 11590-11597. | 2.5 | 1 |
| 120 | Experimental and theoretical investigation of correlated fine structure branching ratios arising from state-selected predissociation of BrO (A ² Î _{3/2}). Physical Chemistry Chemical Physics, 2014, 16, 607-615. | 2.8 | 1 |
| 121 | Anomalous Intensities in the 2+1 REMPI Spectrum of the E ¹ ΖX ¹ Σ ⁺ Transition of CO. Journal of Physical Chemistry A, 2019, 123, 2780-2788. | 2.5 | 1 |
| 122 | Empirical assignment of absorbing electronic state contributions to OCS photodissociation product state populations from 214 to 248†nm. Chemical Physics, 2019, 520, 1-7. | 1.9 | 1 |
| 123 | Transient frequency-modulated spectroscopy: application to the measurement of vector and scalar correlations in molecular photodissociation. , 1998, , . | | 0 |
| 124 | Ene—Diamine versus Imine—Amine Isomeric Preferences ChemInform, 2006, 37, no. | 0.0 | 0 |
| 125 | Repetitively Pulsed Hypersonic Test Facility for Advanced Laser Diagnostic Development. , 2012, , . | | 0 |
| 126 | Non-adiabatic Atomic Coherence at Work in the Oxygen Laser Source for Atmospheric Remote Sensing. | | 0 |

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