

Publications [h-index = 35^{*}; i10-index = 84; Erdős Number = 5[†]]

141. **"Dataset from HDX-MS Studies of IgG1 Glycoforms and Their Interactions with the FcγRIa (CD64) Receptor"**
K. W. Anderson, K. Scott, I. L. Karageorgos, E. S. Gallagher, V. S. Tayi, M. Butler, and J. W. Hudgens
Journal of Research of the National Institute of Standards and Technology 126:126010 (2021).
<https://doi.org/10.6028/jres.126.010> DOI: 10.6028/jres.126.010 PMID: PMID:
140. **"Conformational gating, dynamics and allostery in human monoacylglycerol lipase"**
S. Tyukhtenko, X. Ma, G. Rajarshi, I. Karageorgos, K. W. Anderson, J. W. Hudgens, J. J. Gao, M. L. Nasr, N. Zvonok, K. Vemuri, G. Wagner, and A. Makriyannis Scientific Reports 10(1), 18531 (2020). <https://rdcu.be/b9lqP> DOI: 10.1038/s41598-020-75497-5 PMID: PMID:
139. **"Construction of a Dual Protease Column, Subzero (-30 °C) Chromatography System and Multi-channel Precision Temperature Controller for Hydrogen-Deuterium Exchange Mass Spectrometry"**
J. W. Hudgens, Journal of Research of the National Institute of Standards and Technology **125**, Article No. 125025 (2020). DOI: 10.6028/jres.125.025 (<https://doi.org/10.6028/jres.125.025>), Database Archive: <https://doi.org/10.18434/M32151>
138. **"Interlaboratory Comparison of Hydrogen–Deuterium Exchange Mass Spectrometry Measurements of the Fab Fragment of NISTmAb"**
J. W. Hudgens, E. S. Gallagher, I. Karageorgos, K. W. Anderson, R. Y. C. Huang, G. Chen, , G. M. Bou-Assaf, A. Espada, M. J. Chalmers, E. Harguindey, H.-M. Zhang, B. T. Walters, J. Zhang, J. D. Venable, C. Steckler, I. Park, A. Brock, X. Lu, R. K. Pandey, A. Chandramohan, G. S. Anand, S. N. Nirudodhi, J. B. Sperry, J. C. Rouse, J. A. Carroll, K. D. Rand, U. Leurs, D. D. Weis, M. A. Al-Naqshabandi, T. S. Hageman, D. Deredge, P. L. Wintrode, M. Papanastasiou, J. D. Lambris, S. Li, and S. Urata
Analytical Chemistry **91**, 7336-7345 (2019). DOI: 10.1021/acs.analchem.9b01100 PMID: 31045344 <https://pubs.acs.org/doi/10.1021/acs.analchem.9b01100>.
137. **"Hydrogen-Deuterium Exchange Mass Spectrometry (HDX-MS) Centroid Data Measured between 3.6 °C and 25.4 °C for the Fab Fragment of NISTmAb"**
J. W. Hudgens, E. S. Gallagher, I. Karageorgos, K. W. Anderson, R. Y. C. Huang, G. Chen, , G. M. Bou-Assaf, A. Espada, M. J. Chalmers, E. Harguindey, H.-M. Zhang, B. T. Walters, J. Zhang, J. D. Venable, C. Steckler, I. Park, A. Brock, X. Lu, R. K. Pandey, A. Chandramohan, G. S. Anand, S. N. Nirudodhi, J. B. Sperry, J. C. Rouse, J. A. Carroll, K. D. Rand, U. Leurs, D. D. Weis, M. A. Al-Naqshabandi, T. S. Hageman, D. Deredge, P. L. Wintrode, M. Papanastasiou, J. D. Lambris, S. Li, and S. Urata
Journal of Research of the National Institute of Standards and Technology **124**, 124009 (2019)
<https://doi.org/10.6028/jres.124.009>, Database Archive: <https://doi.org/10.18434/8SX3-NQ49>

* Citation statistics provided by Google Scholar.

† Derived from data provided at <http://www.oakland.edu/enp/>.

136. **"Automated removal of phospholipids from membrane proteins for H/D exchange mass spectrometry workflows"**
K. W. Anderson, E. S. Gallagher, and J. W. Hudgens
Analytical Chemistry **90**, 6409–6412 (2018). DOI: 10.1021/acs.analchem.8b00429 PMID: PMC6050989 PMID: 29723469
135. **"Effects of Distal Mutations on the Structure, Dynamics, and Catalysis of Human Monoacylglycerol Lipase"**
S. Tyukhtenko, G. Rajarshi, I. Karageorgos, N. Zvonok, E. S. Gallagher, H. Huang, K. Vemuri, J. W. Hudgens, X. Ma, M. L. Nasr, S. Pavlopoulos, and A. Makriyannis
Scientific Reports **8**, 1719 (2018). DOI: 10.1038/s41598-017-19135-7 PMID: PMC5789057 PMID: 29379013
134. **"Data on crystal organization in the structure of the Fab fragment from the NIST reference antibody, RM 8671"**
I. Karageorgos, C. Galvin, D. T. Gallagher, and J. W. Hudgens
Data in Brief **16**, 29-36 (2018). DOI: 10.1016/j.dib.2017.11.013 PMID:29167817
PMCID:PMC5686461
133. **"Biophysical characterization and structure of the Fab fragment from the NIST reference antibody RM 8671"**
I. Karageorgos, E. S. Gallagher, C. Galvin, D. T. Gallagher, and J. W. Hudgens
Biologicals **50**, 27-34 (2017). DOI: 10.1016/j.biologicals.2017.09.005 PMID: 28965821
PMCID: PMC5856035
132. **"Conformational Changes in Active and Inactive States of Human PP2C α Characterized by Hydrogen/Deuterium Exchange-Mass Spectrometry"**
S. J. Mazur, E. S. Gallagher, S. Debnath, S. R. Durell, K. W. Anderson, L. M. M. Jenkins, E. Appella, and J. W. Hudgens
Biochemistry, **56**, 2676–2689 (2017). DOI: 10.1021/acs.biochem.6b01220. PMID: 28481111
PMCID: PMC5593270
131. **"Mapping of the Allosteric Site in Cholesterol Hydroxylase CYP46A1 for Efavirenz, a Drug That Stimulates Enzyme Activity"**
K. W. Anderson, N. Mast, J. W. Hudgens, J. B. Lin, I. V. Turko, and I. A. Pikuleva, Journal of Biological Chemistry **291**, 11876-11886 (2016). DOI:10.1074/jbc.M116.723577 PMID: 27056331 PMID: PMC4882454
130. **"Mapping Protein-Ligand Interactions with Proteolytic-Digestion, Hydrogen/Deuterium Exchange-Mass Spectrometry"**
E. S. Gallagher and J. W. Hudgens
Methods in Enzymology, **556**, 357-404 (2016). DOI: 10.1016/bs.mie.2015.08.010. PMID: 26791987
129. **"Method Validation and Standards in Hydrogen Exchange Mass Spectrometry"**
J. W. Hudgens, R. Y.-C. Huang and E. D'Ambro, Chapter 4 in Hydrogen Exchange Mass Spectrometry of Proteins: Fundamentals, Techniques and Applications; David Weis, ed., pp 55-72 (Wiley-Blackwell, 2016), Print ISBN:9781118616499 |Online ISBN:9781118703748 |DOI:10.1002/9781118703748.

128. **"Emerging Technologies to Assess the Higher-Order Structure of Monoclonal Antibodies"**
J.P. Marino, R.G. Brinson, J.W. Hudgens, J.E. Ladner, D.T. Gallagher, E. S. Gallagher, L.W. Arbogast, and R. Y.-C. Huang *Emerging Technologies To Assess the Higher Order Structure of Monoclonal Antibodies*. In *State-of-the-Art and Emerging Technologies for Therapeutic Monoclonal Antibody Characterization Volume 3. Defining the Next Generation of Analytical and Biophysical Techniques*, Schiel, J.; Borisov, O.; Davis, D., eds. American Chemical Society: 2015; Vol. 1202, pp 17-43. DOI:10.1021/bk-2015-1202.ch002
127. **"Characterization of AlgMsp, an Alginate Lyase from *Microbulbifer* sp. 6532A"**
S. M. Swift, J. W. Hudgens, R. D. Heselpoth, P. M. Bales, and D. C. Nelson
PLoS ONE, 9(11), e112939 (2014). DOI: 10.1371/journal.pone.0112939 PMID: 25409178
PMCID: PMC4237336
126. **"A New Mechanism for Regulating Proliferating Cell Nuclear Antigen (PCNA) Activity Identified by Mutational Analyses and Hydrogen/Deuterium Exchange Mass Spectrometry"**
Z. Li, R. Y.-C. Huang, D. C. Yopp, T. H. Hileman, T. J. Santangelo, J. Hurwitz, J. W. Hudgens, and Z. Kelman
Nucleic Acids Research, **42**, 5776-5789 (2014). DOI: 10.1093/nar/gku239 PMID: 24728986
125. **"The Effects of Desialylation on Human α 1-Acid Glycoprotein-Ligand Interactions"**
R. Y.-C. Huang and J. W. Hudgens
Biochemistry **52**, 7127–7136 (2013). DOI: 10.1021/bi4011094 PMID: 24041412
124. **"Surface Mediated Assembly of Small, Metastable Gold Nanoclusters"**
J. M. Pettibone, W. A. Osborn, K. Rykaczewski, A. A. Talin, J. E. Bonevich, and J. W. Hudgens and M. D. Allendorf
Nanoscale **5**, 6558-6566 (2013). DOI: 10.1039/c3nr01708g PMID: 23759958
123. **"Reaction Network Governing Diphosphine-Protected Gold Nanocluster Formation from Nascent Cationic Platforms"**
J. M. Pettibone and J. W. Hudgens
Phys. Chem. Chem. Phys. **14**, 4142-4154 (2011). doi: 10.1039/c2cp22865c. PMID: 22337143
122. **"Predictive Gold Nanocluster Formation Controlled by Metal-ligand Complexes"**
J. M. Pettibone and J. W. Hudgens
Small **8**, 715-725 (2012). DOI: 10.1002/smll.201101777 PMID: 22228703
121. **"Reaction Mechanism Governing the Formation of 1,3-bis(diphenylphosphino)propane-protected Gold Nanoclusters"**
J. W. Hudgens, J. M. Pettibone, T. P. Senftle, and R. N. Bratton
Inorg. Chem. **50**, 10178–10189 (2011). DOI: 10.1021/ic2018506 PMID: 21928777
120. **"Gold Cluster Formation with Phosphine Ligands: Etching as a Size-Selective Synthetic Pathway for Small Clusters?"**
J. M. Pettibone and J. W. Hudgens
ACS Nano **5**, 2989–3002 (2011). DOI: [10.1021/nn200053b](https://doi.org/10.1021/nn200053b). PMID: 21381761
119. **"Synthetic Approach for Tunable, Size-Selective Formation of Monodisperse, Diphosphine-Protected Gold Nanoclusters"**
J. M. Pettibone and J. W. Hudgens
J. Phys. Chem. Lett **1**, 2536–2540 (2010). DOI: [10.1021/jz1009339](https://doi.org/10.1021/jz1009339)

118. "NIST Chemical Kinetics Database, NIST Standard Reference Database 17, Version 7.0 (Web Version)" *J. A. Manion, R. E. Huie, R. D. Levin, D. R. Burgess Jr., V. L. Orkin, W. Tsang, W. S. McGivern, J. W. Hudgens, V. D. Knyazev, D. B. Atkinson, E. Chai, A. M. Tereza, C.-Y. Lin, T. C. Allison, W. G. Mallard, F. Westley, J. T. Herron, R. F. Hampson, and D. H. Frizzell*, National Institute of Standards and Technology; Gaithersburg, Maryland, 20899-8320.
<http://kinetics.nist.gov>
117. "Identification of Active Sites of Biomolecules II: Saccharide and Transition Metal Ion in Aqueous Solution"
O. Coskuner, D. E. Bergeron, L. Rincon, J. W. Hudgens, and C. A. Gonzalez
J. Phys. Chem. A **113**, 2491–2499 (2009). DOI: 10.1021/jp805747f PMID: 19236000
116. "Glycosidic Linkage Conformation of Methyl- α -mannopyranoside"
O. Coskuner, D. E. Bergeron, L. Rincon, J. W. Hudgens, and C. A. Gonzalez
J. Chem. Phys. **129**, 045102 (2008). DOI: 10.1063/1.2958916 PMID: 18681681
115. "Ligand Exchange Reactions in the Formation of Diphosphine-Protected Gold Clusters"
D.E. Bergeron, O. Coskuner, J.W. Hudgens, C.A. Gonzalez
J. Phys. Chem. C **112**, 115- 12808–12814 (2008) DOI: [10.1021/jp804046e](https://doi.org/10.1021/jp804046e)
114. "Identification of Active Sites of Biomolecules I: methyl- α -mannopyranoside and Fe^{III}"
O. Coskuner, D. E. Bergeron, L. Rincon, J. W. Hudgens, and C. A. Gonzalez
J. Phys. Chem. A **112**, 2940-2947 (2008). DOI: [10.1021/jp711759q](https://doi.org/10.1021/jp711759q)
113. "A Hadamard Transform Electron Ionization Mass Spectrometer"
J. W. Hudgens and D. E. Bergeron
Rev. Sci. Instrum. **79**, 014102 (2008). DOI: 10.1063/1.2838174 PMID: 18248052
112. "Impact of Swapping Ethyl for Phenyl Groups on Diphosphine-protected Undecagold"
J. S. Golightly, L. Gao, A. W. Castleman, Jr., D. E. Bergeron, J. W. Hudgens, R. J. Magyar, and C. A. Gonzalez
J. Phys. Chem. C **111**, 14625-14627 (2007), [DOI: [10.1021/jp076375p](https://doi.org/10.1021/jp076375p)]
111. "Ligand Dissociation and Core Fission from Diphosphine Protected Gold Clusters"
D. E. Bergeron and J. W. Hudgens
J. Phys. Chem. C **111**, 8195-8201 (2007). DOI: [10.1021/jp0712811](https://doi.org/10.1021/jp0712811)
110. "Workshop on Combustion Simulation Databases for Real Transportation Fuels"
T.C. Allison, D.R. Burgess, Jr., J.W. Hudgens, J.A. Manion, D.M. Matheu, W. Tsang; J.W. Hudgens, Editor
[NISTIR 7155, National Institute of Standards & Technology, Gaithersburg, MD, Sept 4-5, 2003.](https://www.nist.gov/pml/publications/nistir-7155)
109. "Chlorination Chemistry 4. *Ab initio* Study of the Addition, Metathesis, and Isomerization Channels Governing the Reaction of Chlorine Atom with Propargyl Chloride"
J. W. Hudgens and C. Gonzalez
J. Phys. Chem. A **106**, 6143-6153 (2002). DOI: [10.1021/jp013920s](https://doi.org/10.1021/jp013920s)
108. "Chlorination Chemistry 3. *Ab initio* Study of the Reaction of Chlorine Atom with Allene"
J. W. Hudgens and C. Gonzalez
J. Phys. Chem. A **106**, 1739-1745 (2002). DOI: [10.1021/jp013862a](https://doi.org/10.1021/jp013862a)
107. "Electronic Structure of BCl Determined by *ab initio* Calculations and Resonance-Enhanced Multiphoton Ionization Spectroscopy"
K. K. Irikura, J. W. Hudgens and R. D. Johnson III
J. Phys. Chem. A **104**, 3800 (2000). DOI: [10.1021/jp994011u](https://doi.org/10.1021/jp994011u)

106. **"Chlorination Chemistry 2. Rate Coefficients, Reaction Mechanism, and Spectrum of the Chlorine Adduct of Allene"**
D. B. Atkinson and J. W. Hudgens
J. Phys. Chem. A **104**, 811 (2000). DOI: [10.1021/jp9927247](https://doi.org/10.1021/jp9927247)
105. **"Chlorination Chemistry 1. Rate Coefficients, Reaction Mechanisms, and Spectra of the Chlorine and Bromine Adducts of Propargyl Halides"**
D. B. Atkinson and J. W. Hudgens
J. Phys. Chem. A **103**, 7978-7989 (1999). DOI: [10.1021/jp991076o](https://doi.org/10.1021/jp991076o)
104. **"Kinetic Studies of Reactions of IO Radicals Determined by Cavity Ring-down Spectroscopy"**
D. B. Atkinson, J. W. Hudgens and A. J. Orr-Ewing
J. Phys. Chem. A **103**, 6173-6180 (1999). DOI: [10.1021/jp9902497](https://doi.org/10.1021/jp9902497)
103. **"Rate Coefficients for the Propargyl Radical Self-reaction and Oxygen Addition Reaction Measured using Ultraviolet Cavity Ring-down Spectroscopy"**
D. B. Atkinson and J. W. Hudgens
J. Phys. Chem. A **102**, 4242-4252 (1999). DOI: [10.1021/jp990468s](https://doi.org/10.1021/jp990468s)
102. **"Fourth International Conference on Chemical Kinetics"**
R. E. Huie and J. W. Hudgens
J. Res. Nat. Inst. Stds. Tech., **103**, 425 (1998).
101. **"Evanescent Wave Cavity Ring-down Spectroscopy as a Probe of Surface Processes"**
A. C. R. Pipino, J. W. Hudgens and R. E. Huie
Chem. Phys. Lett. **280**, 104-112 (1997). DOI: [10.1016/S0009-2614\(97\)01080-4](https://doi.org/10.1016/S0009-2614(97)01080-4)
100. **"Evanescent Wave Cavity Ring-down Spectroscopy with a Total-internal-reflection Minicavity"**
A. C. R. Pipino, J. W. Hudgens and R. E. Huie
Rev. Sci. Instrum. **68**, 2978 (1997). DOI: [10.1063/1.1148230](https://doi.org/10.1063/1.1148230)
99. **"Ion Pair States of the ClO Radical Observed by Resonance Enhanced Multiphoton Ionisation Spectroscopy"**
M. J. Cooper, T. Diez-Rojas, L. J. Rogers, C. M. Western, M. N. R. Ashfold and J. W. Hudgens
Chem. Phys. Lett. **272**, 232 (1997). DOI: [10.1016/S0009-2614\(97\)88014-1](https://doi.org/10.1016/S0009-2614(97)88014-1)
98. **"Chemical Kinetic Studies Using Ultraviolet Cavity Ring-Down Spectroscopic Detection: Self-reaction of Ethyl and Ethylperoxy Radicals and the Reaction, $O_2 + C_2H_5 \rightarrow C_2H_5O_2$ "**
D. B. Atkinson and J. W. Hudgens
J. Phys. Chem. A **101**, 3901-3909 (1997). DOI: [10.1021/jp970240+](https://doi.org/10.1021/jp970240+)
97. **"Electronic Structure of the BF_2 Radical Determined by *ab initio* Calculations and Resonance Enhanced Multiphoton Ionization Spectroscopy"**
D. B. Atkinson, K. K. Irikura and J. W. Hudgens
J. Phys. Chem. A **101**, 2045-2049 (1997). DOI: [10.1021/jp9623251](https://doi.org/10.1021/jp9623251)
96. **"Spectroscopic Characterization of the AsF_2 Radical"**
J. L. Brum and J. W. Hudgens
J. Chem. Phys. **106**, 485-488 (1997). DOI: [10.1063/1.473389](https://doi.org/10.1063/1.473389)
95. **"Structural and Thermochemical Properties of Hydroxymethyl (CH_2OH) Radicals and Cations Derived from Observations of $B^2A'(3p) \leftarrow X^2A$ " Electronic Spectra and from *ab initio* Calculations"**
R. D. Johnson III and J. W. Hudgens
J. Phys. Chem. **100**, 19874-19890 (1996). DOI: [10.1021/jp961399+](https://doi.org/10.1021/jp961399+)

94. **"Resonance Enhanced Multiphoton Ionisation of the SiF Radical: A Reinvestigation"**
M. N. R. Ashfold, J. Pearson, J. W. Hudgens and R. D. Johnson III
Chem. Phys. Lett. **263**, 138 (1996). DOI: [10.1016/S0009-2614\(96\)01153-0](https://doi.org/10.1016/S0009-2614(96)01153-0)
93. **"Excited Electronic States of the SiF₂ Radical Studied by Resonance Enhanced Multiphoton Ionisation Spectroscopy and by *ab initio* Methods"**
R. D. Johnson III, J. W. Hudgens and M. N. R. Ashfold
Chem. Phys. Lett. **261**, 474-480 (1996). DOI: [10.1016/0009-2614\(96\)00990-6](https://doi.org/10.1016/0009-2614(96)00990-6)
92. **"Characterisation of the E ¹A₁ Rydberg State of Ammonia by Resonance Enhanced Multiphoton Ionisation Spectroscopy"**
M. N. R. Ashfold, C. M. Western, J. W. Hudgens and R. D. Johnson III
Chem. Phys. Lett. **260**, 27 (1996). DOI: [10.1016/0009-2614\(96\)00803-2](https://doi.org/10.1016/0009-2614(96)00803-2)
91. **"Resonance Enhanced Multiphoton Ionization Spectroscopy of the SnF Radical"**
J. Pearson, R. N. Dixon, J. W. Hudgens and R. D. Johnson III
J. Chem. Phys. **104**, 4406 (1996). DOI:10.1063/1.471192
90. **"Resonance Enhanced Multiphoton Ionization Spectroscopy of the PF Radical"**
J. D. Howe, M. N. R. Ashfold, C. M. Western and J. W. Hudgens
J. Chem. Phys. **104**, 2789-2800 (1996). DOI:10.1063/1.471102
89. **"Spectroscopy of the Fluoromethylene Radicals HCF and DCF by 2+1 Resonance Enhanced Multiphoton Ionization Spectroscopy and by *ab initio* Calculation"**
K. K. Irikura, J. W. Hudgens and R. D. Johnson III
J. Chem. Phys. **103**, 1303-1308 (1995). DOI:10.1063/1.469807
88. **"Importance of Chemistry in Non-Thermal Plasma Control of Volatile Organic Compounds and Air Toxics"**
A. W. Miziolek, J. T. Herron, W. G. Mallard, J. W. Hudgens, D. S. Green, W. Tsang and J-S Chang
Electromagnetic Devices and Processes in Environment Protection, International Conference ELECO '94, Kazimeirz Dolny, Poland (ISBN: 83-86333-60-X), p. 65.
87. **"Observation of the PF₂ Radical by Resonance Enhanced Multiphoton Ionization Spectroscopy"**
J. D. Howe, M. N. R. Ashfold, J. W. Hudgens, and R. D. Johnson III
J. Chem. Phys. **101**, 3549-3557 (1994). DOI:10.1063/1.468429
86. **"Resonance Enhanced Multiphoton Ionization Spectroscopy of the P₂ Radical"**
J. D. Howe, M. N. R. Ashfold and J. W. Hudgens
J. Chem. Phys. **101**, 833-835 (1994). DOI: 10.1063/1.468140
85. **"Multiphoton Ionization Spectroscopy of PCl₂ Radicals: Observation of Two New Rydberg States"**
J. L. Brum and J. W. Hudgens
J. Phys. Chem. **98**, 5587-5590 (1994). DOI: [10.1021/j100073a001](https://doi.org/10.1021/j100073a001)
84. **"New Spectroscopy of Free Radicals Produced by the Reactions of Fluorine and Chlorine with Diborane"**
J. W. Hudgens, K. K. Irikura and R. D. Johnson III
Laser Techniques for State-Selected and State-to-State Chemistry II, 94/SPIE, J. Hepburn, ed., Proc. SPIE 2124, 108 (1994). DOI: [10.1117/12.178120](https://doi.org/10.1117/12.178120)
83. **"Electronic Spectrum of the α,α -Difluoroethyl Radical"**
J. L. Brum and J. W. Hudgens
J. Phys. Chem. **98**, 3645-3649 (1994). DOI: [10.1021/j100065a017](https://doi.org/10.1021/j100065a017)

82. **"Detection and Characterization of Gas-Phase InCl using Resonance Enhanced Multiphoton Ionization"**
D. Dearden, R. D. Johnson III and J. W. Hudgens
J. Chem. Phys. **100**, 3422-3428 (1994). DOI:10.1063/1.467246
81. **"Aluminum Monochloride Excited States Observed by Resonance-Enhanced Multiphoton Ionization Spectroscopy"**
D. V. Dearden, R. D. Johnson III and J. W. Hudgens
J. Chem. Phys. **99**, 7521-7528 (1993). DOI:10.1063/1.465682
80. **"A New Rydberg Series in Atomic Boron"**
K. K. Irikura, R. D. Johnson III and J. W. Hudgens
J. Opt. Soc. B **10**, 763 (1993).
79. **"Detection of ¹¹BF and ¹⁰BF by Resonance-Enhanced Multiphoton Ionization"**
K. K. Irikura, R. D. Johnson III and J. W. Hudgens
Laser Techniques for State-Selected and State-to-State Chemistry II, 94/SPIE, **62**, 1697 (1993).
78. **"New Ways to Optically Detect CH₂ and HCF Radicals Using Resonance Enhanced Multiphoton Ionization Spectroscopy"**
J. W. Hudgens, R. D. Johnson III and K. K. Irikura
Laser Techniques for State-Selected and State-to-State Chemistry, 93/SPIE, Cheuk-Yiu Ng, ed., Proc. SPIE 1858, 15-21 (1993). DOI: [10.1117/12.143083](https://doi.org/10.1117/12.143083)
77. **"Electronic Spectra of the Heteroisotopic CH₂D and CD₂H Radicals by Resonance- Enhanced Multiphoton Ionization"**
J. L. Brum, R. D. Johnson III and J. W. Hudgens
J. Chem. Phys. **98**, 3732-3736 (1993). DOI:10.1063/1.464051
76. **"New Electronic Spectra of the CHFCl Radical Observed with Resonance Enhanced Multiphoton Ionization"**
J. W. Hudgens, R. D. Johnson III and B. P. Tsai
J. Chem. Phys. **98**, 1925-1932 (1993). doi:10.1063/1.464226
75. **"Detection and Characterization of Gas-Phase GaCl Using Resonance Enhanced Multiphoton Ionization"**
D. Dearden, R. D. Johnson III and J. W. Hudgens
J. Chem. Phys. **97**, 8880-8885 (1992). doi:10.1063/1.463362
74. **"Triplet Rydberg States of the Imidogen Radical Characterized via Two Photon Resonance Enhanced Multiphoton Ionisation Spectroscopy"**
S. G. Clement, M. N. R. Ashfold, C. M. Western, R. D. Johnson III and J. W. Hudgens
J. Chem. Phys. **97**, 7064-7072 (1992). DOI: [10.1063/1.463532](https://doi.org/10.1063/1.463532)
73. **"Two New Electronic States of CH₂"**
K. K. Irikura, R. D. Johnson III and J. W. Hudgens
J. Phys. Chem. **96**, 6131-6133 (1992). DOI: [10.1021/j100194a010](https://doi.org/10.1021/j100194a010)
72. **"Electronic Spectrum of the SiCl₃ Radical"**
K. K. Irikura, R. D. Johnson III and J. W. Hudgens
J. Phys. Chem. **96**, 4306-4310 (1992). DOI: [10.1021/j100190a038](https://doi.org/10.1021/j100190a038)
71. **"Triplet Excited States of the NH(ND) Radical Revealed via Two Photon Resonant Multiphoton Ionization Spectroscopy"**
S. G. Clement, M. N. R. Ashfold, C. M. Western, R. D. Johnson III and J. W. Hudgens
J. Chem. Phys. **96**, 5538 (1992). DOI: [10.1063/1.462691](https://doi.org/10.1063/1.462691)

70. **"Spectra and *ab initio* Calculations of Difluoromethyl Radicals and Cations"**
D. Dearden, J. W. Hudgens, R. D. Johnson III, B. P. Tsai and S. Kafafi
J. Phys. Chem. **96**, 585-594 (1992). DOI: [10.1021/j100181a017](https://doi.org/10.1021/j100181a017)
69. **"Detection of CH₂ (X³B₁) Radicals by 3+1 Resonance Enhanced Multiphoton Ionization Spectroscopy"**
K. K. Irikura and J. W. Hudgens
J. Phys. Chem. **96**, 518-519 (1992). DOI: [10.1021/j100181a006](https://doi.org/10.1021/j100181a006)
68. **"Kinetics of the Reaction, CCl₃ + Br₂, and the Thermochemistry of the CCl₃ Radical and Cation"**
J. W. Hudgens, R. D. Johnson III, R. S. Timonen, J. A. Seetula and D. Gutman
J. Phys. Chem. **95**, 4400-4405 (1991). DOI: [10.1021/j100164a043](https://doi.org/10.1021/j100164a043)
67. **"New Rydberg States of Aluminum Monofluoride Observed by Resonance Enhanced Multiphoton Ionization Spectroscopy"**
D. Dearden, R. D. Johnson III and J. W. Hudgens
J. Phys. Chem. **95**, 4291-4292 (1991). DOI: [10.1021/j100164a022](https://doi.org/10.1021/j100164a022)
66. **"Multiphoton Ionization SiH₃ and SiD₃ Radicals II: Three Photon Resonance-Enhanced Spectra Observed between 460 and 600 nm"**
R. D. Johnson III and J. W. Hudgens
J. Chem. Phys. **94**, 5331 (1991). DOI: [10.1063/1.460518](https://doi.org/10.1063/1.460518)
65. **"New Electronic States of the NH and ND Radicals Observed between 258 and 288 nm by Resonance Enhanced Multiphoton Ionization"**
R. D. Johnson III and J. W. Hudgens
J. Chem. Phys. **92**, 6420 (1990). DOI: [10.1063/1.458321](https://doi.org/10.1063/1.458321)
64. **"Experimental and *ab initio* Studies of Electronic Structures of the CCl₃ Radical and Cation"**
J. W. Hudgens, R. D. Johnson III, B. P. Tsai and S. Kafafi
J. Am. Chem. Soc. **112**, 5763-5772 (1990). DOI: [10.1021/ja00171a015](https://doi.org/10.1021/ja00171a015)
63. **"New Electronic States of the NH and ND Observed by Resonance Enhanced Multiphoton Ionization Spectroscopy"**
R. D. Johnson III and J. W. Hudgens
1st International Conference of Laboratory Research for Planetary Atmospheres (NASA Conf. Publ. 3077), K. Fox, J. E. Allen, Jr., L.J. Steif, and D. T. Quillen, eds., p. 164.
62. **"Electronic Spectra of SF₂ Radicals between 295 and 495 nm Observed with Resonance Enhanced Multiphoton Ionization Spectroscopy"**
R. D. Johnson III and J. W. Hudgens
J. Phys. Chem. **94**, 3273-3276 (1990). DOI: [10.1021/j100371a011](https://doi.org/10.1021/j100371a011)
61. **"Multiphoton Ionization of SiH₃ and SiD₃ Radicals: Electronic Spectra, Vibrational Analyses of the Ground and Rydberg States, and Ionization Potential"**
R. D. Johnson III, B. P. Tsai and J. W. Hudgens
J. Chem. Phys. **91**, 3340 (1989). DOI: [10.1063/1.456909](https://doi.org/10.1063/1.456909)
60. **"New Electronic State of SiH and SiD Radicals Observed by Resonance Enhanced Multiphoton Ionization Spectroscopy"**
R. D. Johnson III and J. W. Hudgens
J. Phys. Chem. **93**, 6268-6270 (1989). DOI: [10.1021/j100354a003](https://doi.org/10.1021/j100354a003)

59. **"Electronic Spectra of CF₂Cl and CFCl₂ Radicals Observed by Resonance- Enhanced Multiphoton Ionization"**
B. P. Tsai, R. D. Johnson III and J. W. Hudgens
J. Phys. Chem. **93**, 5334-5336 (1989). DOI: [10.1021/j100351a004](https://doi.org/10.1021/j100351a004)
58. **"Spectrum (310 to 360 nm) and Ionization Potential of the Silyl Radical"**
R. D. Johnson III, B. P. Tsai and J. W. Hudgens
AIP Conf. Proc. **191**, 497-499 (1989). DOI: [10.1063/1.38617](https://doi.org/10.1063/1.38617)
57. **"Two Photon Resonance Enhanced Multiphoton Ionization Detection and Spectroscopy of Gas Phase Germyl (GeH₃) Radicals"**
J. W. Hudgens, R. D. Johnson III and B. P. Tsai
AIP Conf. Proc. **191**, 475-477 (1989). DOI: [10.1063/1.2931562](https://doi.org/10.1063/1.2931562)
56. **"Ab Initio Calculations of the Electronic Structure and Vibrational Frequencies of the Dichloromethyl Radical and Cation"**
S. Kafafi and J. W. Hudgens
J. Phys. Chem. **93**, 3474-3479 (1989). DOI: [10.1021/j100346a023](https://doi.org/10.1021/j100346a023)
55. **"Resonance Enhanced Multiphoton Ionization Spectra of the GeF and GeCl Radicals between 400 and 500 nm"**
R. D. Johnson III, B. P. Tsai and J. W. Hudgens
J. Chem. Phys. **89**, 6064 (1988). DOI: [10.1063/1.455421](https://doi.org/10.1063/1.455421)
54. **"The Electronic Spectrum of the GeH₃ Radical"**
R. D. Johnson III, B. P. Tsai and J. W. Hudgens
J. Chem. Phys. **89**, 4558 (1988). DOI: [10.1063/1.454796](https://doi.org/10.1063/1.454796)
53. **"A New Electronic Spectrum of the SiH₃ Radical Observed Using Multiphoton Ionization Spectroscopy"**
R. D. Johnson III, B. P. Tsai and J. W. Hudgens
Resonance Ionization Spectroscopy and Its Applications, Fourth International Symposium on Resonance Ionization Spectroscopy, (Institute of Physics Conf. Ser. No. 94, Institute of Physics, Bristol, UK, 1988), p. 133-136. ISBN: 0-85498-188-8
52. **"Resonance Enhanced Multiphoton Ionization Spectroscopy of 2-Butene-1-yl (C₄H₇) Between 455-485 nm"**
B. P. Tsai, R. D. Johnson III and J. W. Hudgens
Resonance Ionization Spectroscopy and Its Applications, Fourth International Symposium on Resonance Ionization Spectroscopy (Institute of Physics Conf. Ser. No. 94, Institute of Physics, Bristol, UK, 1988), p. 129. ISBN: 0-85498-188-8
51. **"Resonance Enhanced Multiphoton Ionization Detection of GeF and GeCl Radicals"**
J. W. Hudgens, R. D. Johnson III and B. P. Tsai
Resonance Ionization Spectroscopy and Its Applications, Fourth International Symposium on Resonance Ionization Spectroscopy (Institute of Physics Conf. Ser. No. 94, Institute of Physics, Bristol, UK, 1988), p. 125-128. ISBN: 0-85498-188-8
50. **"Resonance Enhanced Multiphoton Ionization Spectroscopy of SiCl Between 400 and 500 nm"**
R. D. Johnson III and J. W. Hudgens
Advances in Laser Science III, No. 172, Optical Science and Engineering Series, No. 9, A. C. Tam, J. L. Gole, and W. C. Stwalley, eds., American Institute of Physics Conf. Proc. **172**, 340-342 (1988). DOI: [10.1063/1.37336](https://doi.org/10.1063/1.37336)

49. **"Resonance Enhanced Multiphoton Ionization Spectroscopy of CHCl₂ and CCl₂"**
J. W. Hudgens and G. R. Long
Advances in Laser Science III, No. 172, Optical Science and Engineering Series, No. 9, A. C. Tam, J. L. Gole, and W. C. Stwalley, eds., American Institute of Physics Conf. Proc. **172**, 337-339 (1988). DOI: [10.1063/1.37335](https://doi.org/10.1063/1.37335)
48. **"Multiphoton Ionization Spectroscopy of SiCl Radicals between 430 and 520 nm"**
R. D. Johnson III, E. Fang and J. W. Hudgens
J. Phys. Chem. **92**, 3880-3883 (1988). DOI: [10.1021/j100324a040](https://doi.org/10.1021/j100324a040)
47. Erratum: **"Two Photon Resonance Enhanced Multiphoton Ionization Spectroscopy of Gas Phase O₂(a ¹Δ_g) Molecules between 305-350 nm"**
R. D. Johnson III, G. R. Long and J. W. Hudgens
J. Chem. Phys. **89**, 3930 (1988). DOI: [10.1063/1.455745](https://doi.org/10.1063/1.455745)
46. **"Progress in Resonance Enhanced Multiphoton Ionization Spectroscopy of Transient Free Radicals"**
J. W. Hudgens
Advances in Multi-photon Processes and Spectroscopy, Vol. 4, S. H. Lin, ed., World Scientific Publishing Co., Singapore, (1988), pp. 171-296. ISBN: 978-9971-5-0577-6
45. **"A New Electronic Spectrum of the SiH₃ Radical Observed by Multiphoton Ionization Spectroscopy"**
R. D. Johnson III and J. W. Hudgens
Chem. Phys. Lett. **141**, 163 (1987). DOI: [10.1016/0009-2614\(87\)85002-9](https://doi.org/10.1016/0009-2614(87)85002-9)
44. **"Two Photon Resonance Enhanced Ionization Spectra of the 3p D ²Π_r (v'=0,1,2) ←←X ²Π_r (v''=0) Bands of the CF Radical Between 355 and 385 nm"**
R. D. Johnson III and J. W. Hudgens
J. Phys. Chem. **91**, 6189-6191 (1987). DOI: [10.1021/j100308a025](https://doi.org/10.1021/j100308a025)
43. **"Resonance Enhanced Multiphoton Ionization Spectroscopy of CHCl₂ and CCl₂"**
G. R. Long and J. W. Hudgens
J. Phys. Chem. **91**, 5870-5872 (1987). DOI: [10.1021/j100307a011](https://doi.org/10.1021/j100307a011)
42. **"Multiphoton Ionization Spectra of Radical Products in the F(²P) + Ketene System: Spectral Assignments and Formation Reaction for CH₂F, Observation of CH and CF"**
J. W. Hudgens, C. S. Dulcey, G. R. Long and D. J. Bogan
J. Chem. Phys. **87**, 4546 (1987). DOI: [10.1063/1.452867](https://doi.org/10.1063/1.452867)
41. **"Two Photon Resonance Enhanced Multiphoton Ionization Spectroscopy of Gas Phase O₂(a ¹Δ_g) Molecules between 305-350 nm"**
R. D. Johnson III, G. R. Long and J. W. Hudgens
J. Chem. Phys. **87**, 1977 (1987) . DOI: [10.1063/1.453170](https://doi.org/10.1063/1.453170)
40. **"Detection of Gas-Phase Methoxy Radicals by Resonance-Enhanced Multiphoton Ionization"**
G. R. Long, R. D. Johnson III and J. W. Hudgens
J. Phys. Chem. **90**, 4901-4903 (1986). DOI: [10.1021/j100412a001](https://doi.org/10.1021/j100412a001)
39. **"Multiphoton Ionization Spectroscopy and Vibrational Analysis of a 3p Rydberg State of the Hydroxymethyl Radical"**
C. S. Dulcey and J. W. Hudgens
J. Chem. Phys. **84**, 5262 (1986). DOI: [10.1063/1.449935](https://doi.org/10.1063/1.449935)

38. **"Two and Three Photon Resonance Enhanced Multiphoton Ionization and Spectroscopy of the Gas Phase Methyl Radical"**
T. G. DiGiuseppe, J. W. Hudgens and M. C. Lin
Lasers as Reactants and Probes in Chemistry, W. M. Jackson and A. B. Harvey, eds., Howard University Press, Washington, D. C. (1985), p. 121. ISBN: 978-0882581415
37. **"Multiphoton Ionization of Radicals: Pyrolysis and Infrared Multiphoton Generated CF₃ and CH₃"**
M. T. Duignan, T. G. DiGiuseppe, J. W. Hudgens and J. R. Wyatt
Lasers as Reactants and Probes in Chemistry, W. M. Jackson and A. B. Harvey, eds., Howard University Press, Washington, D. C. (1985), p. 113. ISBN: 978-0882581415
36. **"Infrared Fluorescence from CO₂ Excited SF₆ Observed Under Nearly Collisionless Conditions"**
J. W. Hudgens and J. D. McDonald
Lasers as Reactants and Probes in Chemistry, W. M. Jackson and A. B. Harvey, eds., Howard University Press, Washington, D. C. (1985), p. 71. ISBN: 978-0882581415
35. **"Multiphoton Ionization Detection of Gas-Phase Benzyl Radicals"**
M. A. Hoffbauer and J. W. Hudgens
J. Phys. Chem. **89**, 5152-5154 (1985). DOI: [10.1021/j100270a005](https://doi.org/10.1021/j100270a005)
34. **"Detection of SiF Radicals by Multiphoton Ionization Spectroscopy"**
C. S. Dulcey and J. W. Hudgens
Chem. Phys. Lett. **118**, 444-447 (1985). DOI: [10.1016/0009-2614\(85\)85408-7](https://doi.org/10.1016/0009-2614(85)85408-7)
33. **"Multiphoton Ionization Spectroscopy of ClO and BrO Radicals"**
M. T. Duignan and J. W. Hudgens
J. Chem. Phys. **82**, 4426 (1985). DOI: [10.1063/1.448745](https://doi.org/10.1063/1.448745)
32. **"Observation of the 3s ²A₁ Rydberg States of Allyl and 2-Methylallyl Radicals with Multiphoton Ionization Spectroscopy"**
J. W. Hudgens and C. S. Dulcey
J. Phys. Chem. **89**, 1505-1509 (1985). DOI: [10.1021/j100254a039](https://doi.org/10.1021/j100254a039)
31. **"Multiphoton Ionization Spectroscopy of the Fluoromethyl Radical"**
C. S. Dulcey, D. J. Bogan and J. W. Hudgens
Laser techniques in the extreme ultraviolet; Proceedings of the Second Topical Meeting, Boulder, CO, March 5-7, 1984, Harris, S. E.; Lucatorto, T. B., Eds. American Institute of Physics (AIP Conference Proceedings, No. 119, Subseries on Optical Science and Engineering, No. 5), New York (1984), p. 156. DOI: [10.1063/1.34658](https://doi.org/10.1063/1.34658)
30. **"Detection of Iron in Lithium Niobate by Laser-Induced Fluorescence of Sputtered Atoms"**
V. M. Bermudez, J. W. Hudgens and M. A. Hoffbauer
Appl. Optics **22**, 3681-3683 (1983). DOI: [10.1364/AO.22.003681](https://doi.org/10.1364/AO.22.003681) PMID: 20407525
29. **"Multiphoton Ionization Spectroscopy of the Hydroxymethyl Radical"**
C. S. Dulcey and J. W. Hudgens
Bull. Soc. Chim. Belg. **92**, 583 (1983).
28. **"Spectroscopy and Detection of Free Radicals with Resonance Enhanced Multiphoton Ionization"**
J. W. Hudgens, T. G. DiGiuseppe, C. S. Dulcey and M. C. Lin
Bull. Soc. Chim. Belg. **92**, 582 (1983).

27. **"Two Photon Resonance Enhanced Multiphoton Ionization and State Assignments of the Methyl Radical"**
J. W. Hudgens, T. G. DiGiuseppe and M. C. Lin
J. Chem. Phys. **79**, 571 (1983). DOI: [10.1063/1.445857](https://doi.org/10.1063/1.445857)
26. **"Detection of CH₂OH Radicals by Resonance Enhanced Multiphoton Ionization"**
C. S. Dulcey and J. W. Hudgens
J. Phys. Chem. **87**, 2296 (1983). DOI: [10.1021/j100236a012](https://doi.org/10.1021/j100236a012)
25. **"Resonance Enhanced Multiphoton Ionization of the Trifluoromethyl Radical, CF₃"**
M. T. Duignan, J. W. Hudgens and J. R. Wyatt
Laser Techniques for Extreme Ultraviolet Spectroscopy, T. J. McIlrath and R. R. Freedman, eds., American Institute of Physics Conferences Proceedings, New York (1982), Vol. **90**, p. 397-399. DOI: [10.1063/1.33735](https://doi.org/10.1063/1.33735)
24. **"Multiphoton Ionization of the Trifluoromethyl Radical"**
M. Duignan, J. W. Hudgens and J. R. Wyatt
J. Phys. Chem. **86**, 4156-4161 (1982). DOI: [10.1021/j100218a013](https://doi.org/10.1021/j100218a013)
23. **"Laser Physics I: State Selective Excitation"**
J. Pfab, J. Hager, W. Krieger, C. V. Boughton, R. E. Miller, H. Zacharias, M. M. T. Loy, P. A. Roland, A. Sudbo, B. E. Lehmann, C. H. Chen, G. S. Hurst, M. G. Payne, R. D. Willis, S. D. Kramer, E. E. Marinero, C. T. Rettner, R. N. Zare, H. Rottke, K. H. Welge, C. C. Wang, M. T. Myers, D. Zhou, J. W. Hudgens, T. G. DiGiuseppe, M. C. Lin, E. Riedle, H. J. Neusser, E. W. Schlag, J. Pfeifler, P. G. Carrick, R. F. Curl, Jr., F. K. Tittel, C. G. Atkins, G. Hancock, R. F. Menefee, R. R. Hall, M. J. Berry and D. M. Burland
Appl. Phys. B **28**, 117-123 (1982). DOI: [10.1007/BF00697836](https://doi.org/10.1007/BF00697836)
22. **"Multiphoton Ionization and Fragmentation Mechanisms of CS₂"**
M. Seaver, J. W. Hudgens and J. J. DeCorpo
Chem. Phys. **70**, 63 (1982). DOI: [10.1016/0301-0104\(82\)85105-7](https://doi.org/10.1016/0301-0104(82)85105-7)
21. **"New Electronic States in CH₃ Observed Using Multiphoton Ionization"**
T. G. DiGiuseppe, J. W. Hudgens and M. C. Lin
J. Chem. Phys. **76**, 3337 (1982). DOI: [10.1063/1.443332](https://doi.org/10.1063/1.443332)
20. **"Multiphoton Ionization of CH₃ Radicals in the Gas Phase"**
T. G. DiGiuseppe, J. W. Hudgens and M. C. Lin
J. Phys. Chem. **86**, 36-41 (1982). DOI: [10.1021/j100390a008](https://doi.org/10.1021/j100390a008)
19. **"Studies of the Multiphoton Ionization of Organic Phosphonates"**
J. W. Hudgens, technical report to U. S. Army Armament Research and Development Command, Chemical Systems Laboratory, Aberdeen Proving Grounds, July 1982.
18. **"Multiphoton Ionization Mass Spectrometry"**
J. J. DeCorpo, J. W. Hudgens, M. Seaver and J. R. Wyatt
Dynamic Mass Spectrometry, Vol. 6, D. Price and J. F. J. Todd, eds., Heydon & Son, Ltd., London, England (1982), Vol. **90**, p. 397. ISBN: 978-0855014995
17. **"Discrete and Quasicontinuum Level Fluorescence from Infrared Multiphoton Excited SF₆"**
J. W. Hudgens and J. D. McDonald
J. Chem. Phys. **76**, 173 (1982). DOI: [10.1063/1.44275](https://doi.org/10.1063/1.44275)
16. **"Detection of Gas Phase Methyl Radicals Using Multiphoton Ionization"**
T. G. DiGiuseppe, J. W. Hudgens and M. C. Lin
Chem. Phys. Lett. **82**, 267-269 (1981). DOI: [10.1016/0009-2614\(81\)85153-6](https://doi.org/10.1016/0009-2614(81)85153-6)

15. **"Selective Multiphoton Ionization of Geometric Isomers: cis- and trans-1,2-Dichloroethene"**
J. W. Hudgens, M. Seaver and J. J. DeCorpo
J. Phys. Chem. **85**, 761 (1981). DOI: [10.1021/j150607a008](https://doi.org/10.1021/j150607a008)
14. **"Energy Redistribution Observed in Infrared Multiphoton Excited C₂F₅Cl"**
J. W. Hudgens and J. D. McDonald
J. Chem. Phys. **74**, 1510-1511 (1981). DOI: [10.1063/1.441172](https://doi.org/10.1063/1.441172)
13. **"Characterization of Multiphoton Mass Spectrometry"**
J. J. DeCorpo, J. W. Hudgens, M. E. Seaver, M. C. Lin, F. E. Saalfeld and J. R. Wyatt
Advances in Mass Spectrometry, Vol. **8A**, A. Quayle, ed., Heyden and Son, Ltd., London, England, (1980), p. 133. ISBN: 9780855013288
12. **"ArF Laser Multiphoton Ionization Mass Spectrometry of Organic Molecules"**
M. Seaver, J. W. Hudgens and J. J. DeCorpo
Int. J. Mass Spectrom. and Ion Phys. **34**, 159 (1980). DOI: [10.1016/0020-7381\(80\)85023-6](https://doi.org/10.1016/0020-7381(80)85023-6)
11. **"Chemical and Biochemical Applications of Lasers, C. B. Moore, ed."**
J. W. Hudgens
Applied Optics **19**, 262 (1980).
10. **"Infrared Chemiluminescence Investigation of Reactions of Methyl Radicals with Oxygen and Fluorine"**
M. G. Moss, J. W. Hudgens and J. D. McDonald
J. Chem. Phys. **72**, 3486 (1980). DOI: [10.1063/1.439611](https://doi.org/10.1063/1.439611)
9. **"Infrared Laser Driven Reverse Internal Conversion in Carbonyl Fluoride"**
J. W. Hudgens, J. R. Durant, Jr., D. J. Bogan and R. A. Coveleskie
J. Chem. Phys. **70**, 5906-5907 (1979). DOI: [10.1063/1.437420](https://doi.org/10.1063/1.437420)
8. **"Production, Detection and Reactions of the CH Radical"**
J. E. Butler, L. P. Goss, M. C. Lin and J. W. Hudgens
Chem. Phys. Lett. **63**, 104-107 (1979). DOI: [10.1016/0009-2614\(79\)80467-4](https://doi.org/10.1016/0009-2614(79)80467-4)
7. **"Observation of OH(v=0,1) in the Reactions of O(³P) with HCl(v=0,1,2)"**
J. E. Butler, J. W. Hudgens, M. C. Lin and G. K. Smith
Chem. Phys. Lett. **63**, 216-220 (1979). DOI: [10.1016/0009-2614\(78\)80280-2](https://doi.org/10.1016/0009-2614(78)80280-2)
6. **"Studies of the Navy-ARPA Chemical Laser (NACL) Exhaust"**
J. J. DeCorpo, J. W. Hudgens, R. S. Olfky and J. R. Wyatt, R. C. Clark and J. R. Thompson
NRL Formal Report No. 8273, 22 Dec 1978. Identifier-ark ark:/13960/t24b98h2f
5. **"Chemical Applications of Lasers"**
A. P. Baronavski, J. E. Butler, J. W. Hudgens, M. C. Lin, J. R. McDonald and M. E. Umstead
Advances in Laser Chemistry, A. Zewail, ed., Proceedings of the Conference on Advances in Laser Chemistry, California Institute of Technology 20-22 MAR 1978, p. 62-70.
ISBN: 978-3-642-67054-1
4. **"In Situ Studies of the Infrared Multiple Photon Laser Induced Decomposition of CF₂Cl₂ and CFCI₃"**
J. W. Hudgens
J. Chem. Phys. **68**, 777 (1978). DOI: [10.1063/1.435728](https://doi.org/10.1063/1.435728)

3. **"Infrared Chemiluminescence Study of the Reaction of Translationally Hot Hydrogen Atoms with ICl"**
J. W. Hudgens and J. D. McDonald
J. Chem. Phys. **67**, 3401-3403 (1977). DOI: [10.1063/1.435294](https://doi.org/10.1063/1.435294)
2. **"Infrared Chemiluminescence Studies of the Reaction of Oxygen Atoms with CS₂ and CS"**
J. W. Hudgens, J. T. Gleaves and J. D. McDonald
J. Chem. Phys. **64**, 2528 (1976). DOI: [10.1063/1.432502](https://doi.org/10.1063/1.432502)
1. **"Infrared Chemiluminescence Studies of the Reaction of Fluorine Atoms with Monosubstituted Ethylene Compounds"**
J. G. Moehlmann, J. T. Gleaves, J. W. Hudgens and J. D. McDonald
J. Chem. Phys. **60**, 4790 (1974). DOI: [10.1063/1.1680982](https://doi.org/10.1063/1.1680982)

Patents

2. **"Method of Mass Spectrometry (A photochemically induced charge exchange ionizer)"**
J. W. Hudgens
U. S. Pat. Off. File # 506090, 20 June 1983.
1. **"Intra-Cavity Total Reflection for High Sensitivity Measurement of Optical Properties"**
A. C. R. Pipino and J. W. Hudgens
U. S. Pat. Off. Patent # 5943136, 24 August 1999.