

Stewart E. Novick

Department of Chemistry
Wesleyan University
Middletown, Connecticut 06459

(860) 685-2679
snovick@wesleyan.edu
<http://snovick.faculty.wesleyan.edu/>

Date of Birth: September 10, 1945
Place of Birth: Brooklyn, New York
Married to Judith Hofrichter, M.D.

Education

B.S. Magna Cum Laude in Chemistry, State University of New York, Stony Brook	1967
A.M. Chemistry, Harvard University	1968
Ph.D. Chemical Physics, Harvard University Research Advisor, Professor William Klemperer	1973

Fellowships

Woodrow Wilson Fellow
National Science Foundation Fellow
Alfred P. Sloan Fellow, 1979 - 1981

Professional Experience

Research Fellow, Harvard University with Professor William Klemperer	5/73 - 1/76
Research Associateship, Joint Institute for Laboratory Astrophysics, University of Colorado, with Professor W. Carl Lineberger	2/76 - 4/78
Assistant Professor of Chemistry, Wesleyan University	4/78 - 6/85
Guest Researcher, Molecular Physics Division, National Institute of Standards and Technology	2/87 - 7/87
Visiting Research Professor, Syracuse University	9/92 - 12/92
Associate Professor of Chemistry, Wesleyan University	7/85 - 6/93
Professor of Chemistry, Wesleyan University	7/93 - present
Ohio State University International Symposium on Molecular Spectroscopy. Member: International Advisory Committee Steering Committee	7/95 - 6/98 7/97 - 6/99
Chair, Department of Chemistry	7/99 - 6/01
Member, Editorial Board of the Journal of Molecular Spectroscopy	8/11 - 7/14
Chair, Department of Chemistry	7/13 - 6/15
Member, National Science Foundation Panel, CSDMA- Molecular Spectroscopy	1/26-27/17
Joshua Boger University Professor of the Sciences and Mathematics	7/17 - present

PUBLICATIONS

1. Pentacoordinate Silicon. The Crystal Structure of Dimethylsilylamine Pentamer, Reuben Rudman, Walter C. Hamilton, Stewart Novick, Theodore E. Goldfarb, *J. Am. Chem. Soc.* 89, 5157 (1967).
2. Polymerization of Nitrogen Dioxide, Stewart E. Novick, Brian J. Howard, William Klemperer, *J. Chem. Phys.*, 57, 5619 (1972).
3. Radio Spectrum of H_2D^+ , A. Dalgarno, E. Herbst, S. Novick, W. Klemperer, *Astrophys. J.* 183, L131 (1973).
4. Determination of the Structure of Ar HCl, Stewart E. Novick, Paul Davies, Stephen J. Harris, William Klemperer, *J. Chem. Phys.* 59, 2273 (1973).
5. Polarity of van der Waals Molecules, Stewart E. Novick, Paul B. Davies, Thomas R. Dyke, William Klemperer, *J. Am. Chem. Soc.* 95, 8547 (1973).
6. On the Polarity of 1,3 Butadiene, 2,3 Dichloro-1,3 Butadiene and their van der Waals Adducts with Ethylene, Stewart E. Novick, J. M. Lehn, William Klemperer, *J. Am. Chem. Soc.* 95, 8189 (1973).
7. Reply to a Comment by Joel Liebman, S. E. Novick, B. J. Howard, W. Klemperer, *J. Chem. Phys.* 60, 2945 (1974).
8. Determination of the Structure of Ar HF, Stephen J. Harris, Stewart E. Novick, William Klemperer, *J. Chem. Phys.* 60, 3208 (1974).
9. Intermolecular Potential Between an Atom and a Diatomic Molecule: The Structure of Ar ClF, Stephen J. Harris, Stewart E. Novick, William Klemperer, Warren E. Falconer, *J. Chem. Phys.* 61, 193 (1974).
10. $(\text{Cl}_2)_2$: A Polar Molecule, Stephen J. Harris, Stewart E. Novick, John S. Winn, William Klemperer, *J. Chem. Phys.* 61, 3866 (1974).
11. Structure and Bonding of Kr ClF: Intermolecular Force Fields in van der Waals Molecules, Stewart E. Novick, Stephen J. Harris, Kenneth C. Janda, William Klemperer, *Can. J. Phys.* 53, 2007 (1975).
12. Intermolecular Potential Between an Atom and a Linear Molecule: The Structure of Ar OCS, Stephen J. Harris, Kenneth C. Janda, Stewart E. Novick, William Klemperer, *J. Chem. Phys.* 63, 881 (1975).
13. Benzene Dimer: A Polar Molecule, Kenneth C. Janda, John C. Hemminger, John S. Winn, Stewart E. Novick, Stephen J. Harris, William Klemperer, *J. Chem. Phys.* 63, 1419 (1975).
14. Centrifugal Distortion in Ar HCl, Stewart E. Novick, Kenneth C. Janda, Stephen L. Holmgren, Marvin Waldman, William Klemperer, *J. Chem. Phys.* 65, 1114 (1976).
15. Measurement of the Sign of the Dipole Moment of ClF, Kenneth C. Janda, William Klemperer, Stewart E. Novick, *J. Chem. Phys.* 64, 2698 (1976).

16. HF ClF: Structure and Bonding, Stewart E. Novick, Kenneth C. Janda, William Klemperer, *J. Chem. Phys.* 65, 5115 (1976).
17. Quenching of Optically Pumped $O_2(b^1\Sigma^+)$ by Ground State O_2 Molecules, S. A. Lawton, S. E. Novick, H. P. Broida, A. V. Phelps, *J. Chem. Phys.* 66, 1381 (1977).
18. Centrifugal Distortion in Weakly Bound Linear Triatomic Molecules, Stewart E. Novick, *J. Mol. Spect.* 68, 77 (1977).
19. Hydrogen Bonding: The Structure of HF HCl, Kenneth C. Janda, Joseph M. Steed, Stewart E. Novick, William Klemperer, *J. Chem. Phys.* 67, 5162 (1977).
20. Photoluminescence of Liquid Oxygen, Stewart E. Novick, Herbert P. Broida, *J. Chem. Phys.* 67, 5975 (1977).
21. Alkali Negative Ions III. Multichannel Photodetachment Study of Cs^- and K^- , J. Slater, F. H. Read, S. E. Novick, W. C. Lineberger, *Phys. Rev. A.* 17, 201 (1978).
22. Synthesis, Microwave Spectrum, and Structure of $Ar BF_3$, $BF_3 CO$ and $N_2 BF_3$, K. C. Janda, L. S. Bernstein, J. M. Steed, S. E. Novick, W. Klemperer, *J. Am. Chem. Soc.* 100, 8074 (1978).
23. Resonances in Photodetachment of Sodium Halide Negative Ions, Stewart E. Novick, Patrick L. Jones, Thomas J. Molloney, W. C. Lineberger, *J. Chem. Phys.* 70, 2210 (1979).
24. Laser Photoelectron, Photodetachment, and Photodestruction Spectra of O_3^- , Stewart E. Novick, Paul C. Engelking, Patrick L. Jones, Jean H. Futrell, W. C. Lineberger, *J. Chem. Phys.* 70, 2652 (1979).
25. Molecular Beam Electric Resonance Spectroscopy of the Nitric Oxide Dimer, C. M. Western, P. R. R. Langridge-Smith, B. J. Howard, S. E. Novick, *Mol. Phys.* 44, 145 (1981).
26. Qualitative Structure of $(CO_2)_2$ and $(OCS)_2$, J. M. LoBue, J. K. Rice, S. E. Novick, *Chem. Phys. Lett.* 112, 376 (1984).
27. Fluorescence of Dissociating Fragments from Supersonic Jet - Electron Collisions, T. A. Blake, R. V. Smilgys, J. M. LoBue, A. P. Schiffman, S. E. Novick, *Chem. Phys.* 95, 283 (1985).
28. A Computational Procedure for Estimating Equilibrium Angles and Bending Force Constants for van der Waals Molecules from Precision Molecular Beam Electric Resonance Data, S. E. Novick, *J. Mol. Spect.* 118, 550 (1986).
29. Estimates of the Molecular Quadrupole Moment and Parallel Polarizability of BF_3 , S. E. Novick, *J. Phys. Chem.* 90, 3871 (1986).
30. Determination of the Structure of $HCl BF_3$, J. M. LoBue, J. K. Rice, T. A. Blake, S. E. Novick, *J. Chem. Phys.* 85, 4261 (1986).
31. Bibliography of Rotational Spectra of Weakly Bound Complexes. Stewart E. Novick, NATO ASI Ser.; Ser. C. 212, 201 (1987). An updated electronic version of this bibliography is available from the author upon request, and on the web at <http://www.wesleyan.edu/chem/faculty/novick/vdw.html>

32. Determination of the Structure of OCS CO₂, Stewart E. Novick, R. D. Suenram, F. J. Lovas, *J. Chem. Phys.* 88, 687 (1988).
33. The Structure of Weakly Bound Complexes as Elucidated by Microwave and Infrared Spectroscopy, Stewart E. Novick, Kenneth R. Leopold, William Klemperer, *Studies in Physical and Theoretical Chemistry*, 68, 359 (1990).
34. The Torsional-Rotational Spectrum and Structure of the Formaldehyde Dimer, F. J. Lovas, R. D. Suenram, L. H. Coudert, Thomas A. Blake, Kimberley J. Grant, Stewart E. Novick, *J. Chem. Phys.* 92, 891 (1990).
35. Determination of the Structure of CO₂ H₂CO, Thomas A. Blake, Stewart E. Novick, F. J. Lovas, R. D. Suenram, *J. Mol. Spectrosc.* 154, 72 (1992).
36. Review of P.W. Atkin's *Quanta: a Handbook of Concepts*, Stewart E. Novick, *Am. J. Phys.* 60, 671 (1992).
37. Microwave Determination of the Structure of the C_s Conformation of Dipropyl Ether, Kimberley J. Grant, A. R. Hight Walker, Stewart E. Novick, Robert K. Bohn, Lou Qi, Timothy Wheeler, James M. LoBue, Mohammad A. Al-Laham, *J. Phys. Chem.* 97, 6979 (1993).
38. Determination of the Structure of Ar H₂CO, Stewart E. Novick, *J. Chem. Phys.* 99, 7506 (1993).
39. Current Themes in Microwave and Infrared Spectroscopy of Weakly Bound Complexes, K.R. Leopold, G.T. Fraser, S.E. Novick, W. Klemperer, *Chemical Reviews* 94, 1807 (1994).
40. Rotational Spectra of Methyl Ethyl and Methyl Propyl Nitrosamines. Conformational Assignment, Internal Rotation and Quadrupole Coupling, A.R. Hight Walker, Qi Lou, Robert K. Bohn, Stewart E. Novick, *J. Mol. Struct.*, 346, 187 (1995).
41. Determination of the Structure of HBr OCS, A. R. Hight Walker, Wei Chen, Stewart E. Novick, Brian D. Bean, Mark D. Marshall, *J. Chem. Phys.* 102, 7298 (1995).
42. Carbon-13 Hyperfine Structure of the CCCCH Radical, Wei Chen, Stewart E. Novick, M. C. McCarthy, C.A. Gottlieb, P. Thaddeus, *J. Chem. Phys.* 103, 7828 (1995).
43. Laboratory Measurement of the Hyperfine Structure of HCCCO, Wei Chen, Stewart E. Novick, M. C. McCarthy, M. J. Travers, C. A. Gottlieb, A. L. Cooksy, P. Thaddeus, *Astrophys. J.* 462, 561 (1996).
44. Translational Energy Release Following Multiphoton Dissociation of Organometallics, R. M. Villarica, B. Samoriski, J. Chaiken, Stewart E. Novick, *Appl. Surf. Sci.* 106, 99 (1996).
45. Hyperfine Structure in the Microwave Spectrum of NF₃, Stewart E. Novick, Wei Chen, Michael R. Munrow, Kimberley J. Grant, *J. Mol. Spectrosc.* 179, 219 (1996).
46. Structure of the Cumulene Carbene Butatrienylidene: H₂CCCC, M. J. Travers, Wei Chen, Stewart E. Novick, J. M. Vrtilik, C. A. Gottlieb, P. Thaddeus, *J. Mol. Spectrosc.* 180, 75 (1996).

47. Two New Cumulene Carbenes: H_2C_5 and H_2C_6 , M. C. McCarthy, M. J. Travers, A. Kovacs, Wei Chen, Stewart E. Novick, C. A. Gottlieb, P. Thaddeus, *Science* 275, 518 (1997).
48. Determination of the Structure of HBr DBr, Wei Chen, A. R. Hight Walker, Stewart E. Novick, Fu-Ming Tao, *J. Chem. Phys.* 106, 6240 (1997).
49. Erratum: Determination of the Structure of HBr DBr, Wei Chen, A. R. Hight Walker, Stewart E. Novick, Fu-Ming Tao, [*J. Chem. Phys.* 106, 6240 (1997)], *J. Chem. Phys.* 106, 10386 (1997). The title of the original paper was garbled by the journal.
50. Laboratory detection of a new carbon chain radical: H_2CCCCN , Wei Chen, M. C. McCarthy, M. J. Travers, E. W. Gottlieb, Michael R. Munrow, Stewart E. Novick, C. A. Gottlieb, P. Thaddeus, *Astrophys. J.* 492, 849 (1998).
51. Microwave Spectra of the methylcyanopolyynes $\text{CH}_3(\text{C}\equiv\text{C})_n\text{CN}$ ($n=2,3,4,5$), Wei Chen, J.-U. Grabow, M. J. Travers, Michael R. Munrow, Stewart E. Novick, M. C. McCarthy, P. Thaddeus, *J. Mol. Spectrosc.* 192, 1 (1998).
52. Laboratory detection of the 2,4-pentadiynyl radical, $\text{H}_2\text{C}-\text{C}\equiv\text{C}-\text{C}\equiv\text{CH}$, Wei Chen, Stewart E. Novick, M. C. McCarthy, P. Thaddeus, *J. Chem. Phys.* 109, 10190 (1998).
53. Determination of the Structure of the Argon Cyclobutanone van der Waals complex, Michael R. Munrow, Wallace C. Pringle, Stewart E. Novick, *J. Phys. Chem. A.* 103, 2256 (1999).
54. Microwave spectroscopy of the methylpolyynes $\text{CH}_3(\text{C}\equiv\text{C})_6\text{H}$ and $\text{CH}_3(\text{C}\equiv\text{C})_7\text{H}$, Wei Chen, M. C. McCarthy, Stewart E. Novick, P. Thaddeus, *J. Mol. Spectrosc.* 196, 335 (1999).
55. Rotational Spectra of Argon Acetone: A Two-Top Internally Rotating Complex, Lu Kang, Alison R. Keimowitz, Michael R. Munrow, Stewart E. Novick, *J. Mol. Spectrosc.* 213, 122 (2002).
56. Microwave spectra of four new perfluoromethyl polyne chains, trifluoropentadiyne, $\text{CF}_3-\text{C}\equiv\text{C}-\text{C}\equiv\text{C}-\text{H}$, trifluoroheptatriyne, $\text{CF}_3-\text{C}\equiv\text{C}-\text{C}\equiv\text{C}-\text{C}\equiv\text{C}-\text{H}$, tetrafluoropentadiyne, $\text{CF}_3-\text{C}\equiv\text{C}-\text{C}\equiv\text{C}-\text{F}$, and trifluoromethylcyanoacetylene, $\text{CF}_3-\text{C}\equiv\text{C}-\text{C}\equiv\text{N}$, Lu Kang and Stewart E. Novick, *J. Phys. Chem. A.* 106, 3749 (2002).
57. Hyperfine interactions in HSiCl, Wei Lin, Stewart E. Novick, Masaru Fukushima, Wolfgang Jäger, *J. Phys. Chem. A.* 106, 7703 (2002).
58. Torsional analysis of 2-butynol, Ranga Subramanian, Stewart E. Novick, and Robert K. Bohn, *J. Mol. Spectrosc.* 222, 57-62 (2003).
59. William A. Klemperer, an appreciation, Kevin K. Lehmann, Stewart E. Novick, Robert W. Field, Anthony J. Merer, *J. Mol. Spectrosc.* 222, 1-2 (2003).
60. The Microwave Spectrum of Cyanophosphine, H_2PCN , Lu Kang, Stewart E. Novick, *J. Mol. Spectrosc.* 225, 66-72 (2004).
61. The Microwave Spectrum of HGeCl, Wei Lin, Lu Kang, Stewart E. Novick, *J. Mol. Spectrosc.* 230, 93-98 (2005).

62. Rotational spectrum, nuclear quadrupole coupling constants, and structure of the argon-chlorocyclobutane van der Waals complex, Ranganathan Subramanian, Jodi M. Szarko, Wallace C. Pringle, Stewart E. Novick, *J. Mol. Struct.* **742**, 165-172 (2005).
63. High resolution studies of tropolone in the S_0 and S_1 electronic states: isotope driven dynamics in the zero-point energy levels, John C. Keske, Wei Lin, Wallace C. Pringle, Stewart E. Novick, Thomas A. Blake, David F. Plusquellic, *J. Chem. Phys.* **124**, 074309 (2006).
64. Microwave spectra of the 1,1-difluoro-2-propynyl radical, $F_2C-C \equiv CH$, Lu Kang and Stewart E. Novick, *J. Chem. Phys.* **125**, 054309 (2006).
65. The microwave spectrum of phosphacetylnitrile, $H_2P-C \equiv C-C \equiv N$, Lu Kang, Andrea J. Minei, Stewart E. Novick, *J. Mol. Spectrosc.* **240**, 255-259 (2006).
66. Microwave observation of the 'recently found' polar OCS dimer, Andrea J. Minei and Stewart E. Novick, *J. Chem. Phys.* **126**, 101101 (2007).
67. Rotational spectra of gauche perfluoro-n-butane, C_4F_{10} ; perfluoro-iso-butane, $(CF_3)_3CF$; and tris[trifluoromethyl]-methane, $(CF_3)_3CH$, Michael R. Munrow, Ranga Subramanian, Andrea J. Minei, Dean Antic, Matthew K. MacLeod, Josef Michl, Raul Crespo, Mari Carmen Piqueras, Mitsuaki Izuha, Tomohiro Ito, Yoshio Tatamitani, Kenji Yamanoh, Teruhiko Ogata, Stewart E. Novick, *J. Mol. Spectrosc.* **242**, 129 (2007).
68. The microwave spectrum and structure of the argon trifluoroacetonitrile complex, Wei Lin and Stewart E. Novick, *J. Mol. Spectrosc.* **243**, 32-36 (2007).
69. Microwave spectra and ab initio studies of Ar-propane and Ne-propane complexes: structure and dynamics, Karen I. Peterson, David Pullman, Wei Lin, Andrea J. Minei, Stewart E. Novick, *J. Chem. Phys.* **127**, 184306 (2007).
70. Microwave spectrum and structure of the polar N_2O dimer, Nicholas R. Walker, Andrea J. Minei, Stewart E. Novick, Anthony C. Legon, *J. Mol. Spectrosc.* **251**, 153-158 (2008).
71. Determination of the structure of methylene cyclobutane confirming a non-planar ethene and the structure of the argon-methylene cyclobutane van der Waals complex, Wei Lin, Jovan A. Gayle, Wallace C. Pringle, Stewart E. Novick, *J. Mol. Spectrosc.* **251**, 210-216 (2008).
72. Fourier transform microwave spectroscopy of monobromogermylene (HGeBr and DGeBr), a heavy atom carbene analog, Lu Kang, Fumie Sunahori, Andrea J. Minei, Dennis J. Clouthier, Stewart E. Novick, *J. Chem. Phys.* **130**, 124317 (2009).
73. Microwave spectra and structural parameters of equatorial-*trans* cyclobutanol, Wei Lin, Arindam Ganguly, Andrea J. Minei, Glen L. Lindeke, Wallace C. Pringle, Stewart E. Novick, and James R. Durig, *J. Mol. Struct.* **992**, 83-87 (2009).
74. Microwave spectrum of the argon-tropolone van der Waals complex, Wei Lin, Wallace C. Pringle, Stewart E. Novick, Thomas A. Blake, *J. Phys. Chem. A* **113**, 13076-13080 (2009).

75. Determination of the structure of cyclopentene oxide and the argon cyclopentene oxide van der Waals complex, Andrea J. Minei, Jennifer van Wijngaarden, Stewart E. Novick, Wallace C. Pringle, *J. Phys. Chem. A* **114**, 1427-1431 (2010).
76. Microwave spectra, structure, and dynamics of the weakly-bound complex, N₂ CO₂, Daniel J. Frohman, Edwin S. Contreras, Ross S. Firestone, Stewart E. Novick, William Klemperer, *J. Chem. Phys.* **133**, 244303 (2010).
77. Extended Townes-Dailey analysis of the nuclear quadrupole coupling tensor, Stewart E. Novick, *J. Mol. Spectrosc.* **267**, 13-18 (2011).
78. Microwave spectroscopy, Dunham analysis, and hyperfine splittings of the isotopomers of zinc monosulfide, ZnS, Daniel J. Frohman, G. S. Grubbs II, Stewart E. Novick, *J. Mol. Spectrosc.* **270**, 40-43 (2011).
79. Fourier transform microwave spectroscopy of the reactive intermediate moniodosilylene, HSiI and DSiI, Lu Kang, Mohammed A. Gharaibeh, Dennis J. Clouthier, Stewart E. Novick, *J. Mol. Spectrosc.* **271**, 33-37 (2012).
80. *The Rotational Spectrum of Perfluoropropionic Acid*, G. S. Grubbs II, Agapito Serrato III, Daniel A. Obenchain, S. A. Cooke, Stewart E. Novick, Wei Lin, *J. Mol. Spectrosc.* **275**, 1-4 (2012).
81. The microwave spectra of the weakly bound complex between carbon monoxide and cyanoacetylene, OC H-C≡C-C≡N, Lu Kang and Stewart E. Novick, *J. Mol. Spectrosc.* **276-277**, 10-13 (2012).
82. *Measurement and analysis of the pure rotational spectrum of tin monochloride, SnCl, using laser ablation equipped chirped-pulse and cavity Fourier transform microwave spectroscopy*, G. S. Grubbs II, Daniel J. Frohman, Stewart E. Novick, S. A. Cooke, *J. Mol. Spectrosc.* **280**, 85-90 (2012).
83. Methyl group internal rotation and the choice of Hamiltonian for the rotation spectrum of 1,1-difluoroacetone, G. S. Grubbs II, P. Groner, Stewart E. Novick, S. A. Cooke, *J. Mol. Spectrosc.* **280**, 21-26 (2012).
84. A bis-trifluoromethyl effect: Doubled transitions in the pure rotational spectra of hexafluoroisobutene, (CF₃)₂C=CH₂, G. S. Grubbs II, Stewart E. Novick, Wallace C. Pringle, Jaan Laane, Esther J. Ocola, S. A. Cooke, *J. Phys. Chem. A* **116**, 8169-8175 (2012).
85. Probing the chemical nature of dihydrogen complexation to transition metals, a case study: H₂--CuF, Daniel J. Frohman, G. S. Grubbs II, Zhenhong Yu, Stewart E. Novick, *Inorg. Chem.* **52**, 816-822 (2013).
86. Detection of Nitrogen-protonated Nitrous oxide HNNO⁺ by Rotational Spectroscopy, Michael C. McCarthy, Oscar Martinez, Jr., Kyle N. Crabtree, Stewart E. Novick, Sven Thorwirth, *J. Phys. Chem. A* **117**, 9968-9974 (2013).
87. Rotational spectrum and structure of cyclohexene oxide and the argon-cyclohexene oxide van der Waals Complex, Daniel J. Frohman, Stewart E. Novick, Wallace C. Pringle, *J. Phys. Chem. A* **117**, 13691-13695 (2013).

88. Corrigendum to: "Microwave spectrum and structure of the polar N₂O dimer" [J. Mol. Spectrosc. 251 (2008) 153-158], Nicholas R. Walker, Andrea J. Minei, Stewart E. Novick, Anthony C. Legon, *J. Mol. Spectrosc.* **293-294**, 61 (2013).
89. The microwave spectra and structure of the argon-cyclopentanone and neon-cyclopentanone van der Waals complexes, Wei Lin, Andrew H. Brooks, Andrea J. Minei, Stewart E. Novick, Wallace C. Pringle, *J. Phys. Chem. A* **118**, 856-861 (2014).
90. The shape of trifluoromethoxybenzene, Lu Kang, Stewart E. Novick, Qian Gou, Lorenzo Spada, Montserrat Vallejo-Lopez, Walther Caminati, *J. Mol. Spectrosc.* **297**, 32-34 (2014).
91. Fluorination effects on the shapes of complexes of water with ethers: a rotational study of trifluoroanisole-water, Qian Gou, Lorenzo Spada, Monserrat Vallejo-Lopez, Lu Kang, Stewart E. Novick, Walther Caminati, *J. Phys. Chem. A* **118**, 1047-1051 (2014).
92. Measurement of the $J = 1 - 0$ pure rotational transition in excited vibrational states of X ¹Σ Thorium (II) Oxide, ThO, B. E. Long, Stewart E. Novick, S. A. Cooke, *J. Mol. Spectrosc.* **302**, 1-2 (2014).
93. H₂, AgCl: a spectroscopic study of a dihydrogen complex, G. S. Grubbs II, Daniel A. Obenchain, Herbert M. Pickett, Stewart E. Novick, *J. Chem. Phys.* **141**, 114306 (2014).
94. Internal Dynamics in the Molecular Complex of CF₃CN and H₂O, Wei Lin, Anan Wu, Xin Lu, Xiao Tang, Daniel A. Obenchain, Stewart E. Novick, *Phys. Chem. Chem. Phys.* **17**, 17266-17270 (2015).
95. Erratum: "H₂-AgCl: A spectroscopic study of a dihydrogen complex" [J. Chem. Phys. 141, 114306 (2014)] G.S. Grubbs II, Daniel A. Obenchain, Herbert M. Pickett, and Stewart Novick, *J. Chem. Phys.* **143**, 029901 (2015).
96. The position of the deuterium in HOD - NNO as determined by structural and nuclear quadrupole coupling constants, Daniel A. Obenchain, Derek S. Frank, Stewart E. Novick, William Klemperer, *J. Chem. Phys.* **143**, 084301 (2015).
97. A study of the monohydrate and dihydrate complexes of perfluoropropionic acid using chirped-pulse Fourier transform (CP-FTMW) spectroscopy, G. S. Grubbs II, Daniel A. Obenchain, Derek S. Frank, Stewart E. Novick, S. A. Cooke, Agapito Serrato III, Wei Lin, *J. Phys. Chem. A* **119**, 10475-80 (2015).
98. Rotational spectra and nitrogen nuclear quadrupole coupling for the cyanoacetylene dimer: H-C≡C-C≡N...H-C≡C-C≡N, Lu Kang, Philip Davis, Ian Dorell, Kexin Li, Stewart E. Novick, Stephen G. Kukolich, *J. Mol. Spectrosc.* **321**, 5-12 (2016).
99. The pure rotational spectrum of the Claisen rearrangement precursor allyl phenyl ether using CP-FTMW spectroscopy, G. S. Grubbs II, Derek S. Frank, Daniel A. Obenchain, S. A. Cooke, Stewart E. Novick, *J. Mol. Spectrosc.* **324**, 1-5 (2016).
100. Rotational spectroscopy of 2H,3H-perfluoropentane, Chinh H. Duong, Daniel A. Obenchain, S. A. Cooke, Stewart E. Novick, *J. Mol. Spectrosc.* **324**, 53-55 (2016).

101. A study of 2-iodobutane by rotational spectroscopy, Eric A. Arsenault, Daniel A. Obenchain, Yoon Jeong Choi, Thomas A. Blake, S. A. Cooke, Stewart E. Novick, *J. Phys. Chem. A* **120**, 7145-7151 (2016).
102. A beginner's guide to Pickett's SPCAT/SPFIT, Stewart E. Novick, *J. Mol. Spectrosc.* **329**, 1-7 (2016).
103. A study of the conformational isomerism of 1-iodobutane by high resolution rotational spectroscopy, Eric A. Arsenault, Daniel A. Obenchain, Thomas A. Blake, S. A. Cooke, Stewart E. Novick, *J. Mol. Spectrosc.* **335**, 17-22 (2017).
104. The covalent interaction between di-hydrogen and gold: A rotational spectroscopic study of H_2 , AuCl, Daniel A. Obenchain, G. S. Grubbs II, Herbert M. Pickett, Stewart E. Novick, *J. Chem. Phys.* **146**, 204302 (2017).
105. Nuclear quadrupole coupling in SiH_2I_2 due to the presence of two iodine nuclei, Eric A. Arsenault, Daniel A. Obenchain, W. Orellana, Stewart E. Novick, *J. Mol. Spectrosc.* **338**, 72 - 76 (2017).
106. Rotational spectrum and structure of the T-shaped cyanoacetylene complex, HCCCN ... CO_2 , Lu Kang, Philip Davis, Ian Dorell, Kexin Li, Onur Oncer, Lucy Wang, Stewart E. Novick, Stephen G. Kukolich, *J. Mol. Spectrosc.* **342**, 62-72 (2017).
107. Rotational Spectra of 4,4,4-Trifluorobutyric Acid and the 4,4,4-Trifluorobutyric Acid-Formic Acid Complex, Yoon Jeong Choi, Alex Treviño, Susanna L. Stephens, Stephen A. Cooke, Stewart E. Novick, Wei Lin, *J. Mol. Spectrosc.* **344**, 65-70 (2018).
108. Torsional splitting and four-fold barrier to internal rotation: the rotational spectra of vinylsulfur pentafluoride, W. Orellana, S. L. Stephens, W. C. Pringle, P. Groner, S. E. Novick, S. A. Cooke, *J. Chem. Phys.* **149**, 144304 (2018).
109. Determination and analysis of the nuclear quadrupole coupling tensors of 2-bromopyridine, Angela Y. Chung, Eric A. Arsenault, Susanna L. Stephens, Wallace C. Pringle, Carlos A. Jiménez-Hoyos, S. A. Cooke, Stewart E. Novick, submitted, *J. Mol. Spectrosc.* (2018).