

CURRICULUM VITAE

CHERICE M. EVANS

1. PERSONAL

Born at Baytown, Texas on November 8, 1975.

Education: University of Louisiana at Monroe, Monroe, LA, 1993-1996. B. S. in Chemistry, December 1996.

University of Louisiana at Monroe, Monroe, LA, 1997-1998. M.S. in Chemistry under the direction of Dr. Gary L. Findley, May 1998.

Louisiana State University, Baton Rouge, LA, 1999 - 2001. Ph.D. in Chemistry under the direction of Dr. Gary L. Findley and Dr. John D. Scott, May 2001.

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Familial Status: Unmarried

Honors: Omicron Delta Kappa, Sigma Xi

Memberships and Appointments: American Chemical Society; American Physical Society

Other Appointments: Adjunct Assistant Professor of Chemistry, University of Louisiana at Monroe, 2001 –

Postdoctoral Fellow, Department of Physics, University of Virginia, 2001 – 2003

Adjunct Instructor of Chemistry, University of Louisiana at Monroe, 1999 – 2001

2. PAPERS PUBLISHED

1. C. M. Evans, R. Reininger and G. L. Findley, "Photoionization spectra of CH₃I perturbed by SF₆: electron scattering in SF₆ gas," Chem. Phys. Lett. **297**, 127-132 (1998).
2. C. M. Evans, R. Reininger and G. L. Findley, "Subthreshold photoionization of CH₃I perturbed by SF₆," Chem. Phys. **241**, 239-246 (1999).
3. C. M. Evans and G. L. Findley, "A new transformation for the Lotka-Volterra problem," J. Math. Chem. **25**, 105-110 (1999).
4. C. M. Evans and G. L. Findley, "Analytic solutions to a family of Lotka-Volterra related differential equations," J. Math. Chem. **25**, 181-189 (1999).
5. C. M. Evans, R. Reininger and G. L. Findley, "Subthreshold photoionization of CH₃I in Ar, N₂ and CO₂," Chem. Phys. Lett. **322**, 465-471 (2000).
6. C. M. Evans, J. D. Scott, F. H. Watson and G. L. Findley, "Photoionization studies of C₂H₅I and C₆H₆ perturbed by Ar and SF₆," Chem. Phys. **260**, 225-236 (2000).
7. E. S. Meadows, L. J. Barbour, F. R. Fronczek, C. M. Evans, S. F. Watkins and G. W. Gokel, "Channel-like structures formed from extended networks of 4,13-diaza-18-crown-6 complexes," Inorg. Chim. Acta **300-302**, 333-338 (2000).
8. C. M. Evans and G. L. Findley, "Analytic solutions to the Lotka-Volterra model for sustained chemical oscillations," Recent Res. Dev. in Chem. Phys **1**, 1-32 (2000).
9. C. M. Evans and G. L. Findley, "Analytic solutions to a class of two-dimensional Lotka-Volterra dynamical systems," Disc. Cont. Dynam. Systems **6**, 137-142 (2000).
10. C. M. Evans, E. Morikawa and G. L. Findley, "Pressure studies of subthreshold photoionization: CH₃I, C₂H₅I and C₆H₆ perturbed by Ar and SF₆," Chem. Phys. **264**, 419-435 (2001).
11. C. M. Evans and G. L. Findley, "Pressure studies of subthreshold photoionization: CH₃I perturbed by CF₄ and *c*-C₄F₈," Chem. Phys. Lett. **337**, 375-385 (2001).
12. C. M. Evans, E. Morikawa and G. L. Findley, "Photoionization spectra of CH₃I and C₂H₅I perturbed by CF₄ and *c*-C₄F₈: Electron scattering in halocarbon gases," J. Phys. B **34**, 3607-3615 (2001).
13. E. Morikawa, C. M. Evans and J. D. Scott, "The new normal incidence monochromator facility at CAMD," in: *The CAARI 2000, Sixteenth international conference on the application of accelerators in research and industry*, J. L. Duggan and I. L. Morgan, eds. (American Institute of Physics, Maryland, 2001), p. 730-733.

14. C. M. Evans, J. D. Scott and E. Morikawa, "The double-tailed normal-incidence-monochromator beamline at CAMD," *Rev. Sci. Instr.* **73**, 1557-1559 (2002).
15. C. M. Evans, J. D. Scott and G. L. Findley, "Subthreshold photoionization in molecular dopant/perturber system," *Recent Res. Dev. in Chem. Phys.* **3**, 351-438 (2002).
16. C. M. Evans, E. S. Shuman and T. F. Gallagher, "Microwave-induced dielectronic recombination above the classical ionization limit in a static field," *Phys. Rev. A* **67**, 043410 (2003).
17. E. S. Shuman, C. M. Evans and T. F. Gallagher, " ℓ -dependence of dielectronic recombination in a static electric field," *Phys. Rev. A* **69**, 063402 (2004).
18. C. M. Evans and G. L. Findley, "Energy of the quasi-free electron in argon and krypton," *Phys. Rev. A* **72**, 022717 (2005).
19. C. M. Evans and G. L. Findley, "Energy of the quasi-free electron in supercritical argon near the critical point," *Chem. Phys. Lett.* **410**, 242 (2005).
20. C. M. Evans and G. L. Findley, "Field ionization of C_2H_5I in Ar near the critical point," *J. Phys. B: At. Mol. Phys.* **38**, L269 (2005).
21. Luxi Li, C. M. Evans and G. L. Findley, "Energy of the quasi-free electron in supercritical krypton near the critical point," *J. Phys. Chem. A*, submitted.

3. CONFERENCE PAPERS

1. C. M. Evans and G. L. Findley, "Analytic solutions to the Lotka-Volterra problem," 1998 Joint Meeting of the American Physical Society and the American Association of Physics Teachers, Columbus, OH, April 18-21, 1998.
2. C. M. Evans, R. Reininger and G. L. Findley, "Photoionization spectra of CH_3I perturbed by SF_6 : Electron scattering in SF_6 gas," 54th Southwest Regional Meeting of the American Chemical Society, Baton Rouge, LA, November 1-3, 1998.
3. C. M. Evans, R. Reininger and G. L. Findley, "Subthreshold photoionization of CH_3I perturbed by SF_6 ," American Physical Society Centennial Meeting, Atlanta, GA, March 20-26, 1999.
4. C. M. Evans, R. Reininger and G. L. Findley, "Subthreshold photoionization of CH_3I in Ar, N_2 and CO_2 ," 218th National Meeting of the American Chemical Society, New Orleans, LA, August 22-26, 1999.
5. C. M. Evans and G. L. Findley, "A new family of Lotka-Volterra related differential equations," Year 2000 International Conference on Dynamical Systems and Differential Equations, Kennesaw, GA, May 18-21, 2000.

6. C. M. Evans, E. Morikawa and G. L. Findley, "Photoionization of CH₃I and C₂H₅I perturbed by CF₄ and *c*-C₄F₈: Electron scattering in halocarbon gases," Annual Meeting of the American Physical Society Division of Atomic, Molecular and Optical Physics, Storrs, CT, June 14-17, 2000.
7. C. M. Evans and G. L. Findley, "Electron scattering in halogenated gases: CH₃I perturbed by SF₆, CF₄ and *c*-C₄F₈," Louisiana Materials Science Conference, University of New Orleans, New Orleans, LA, August 17-18, 2000.
8. J. D. Scott, E. Morikawa and C. M. Evans, "The new normal-incidence-monochromator facility at CAMD," 16th International Conference on the Applications of Accelerators in Research and Industry, Denton, TX, November 1-4, 2000.
9. C. M. Evans, J. D. Scott and E. Morikawa, "The double-tailed normal-incidence-monochromator beamline at CAMD," 12th U.S. National Synchrotron Radiation Instrumentation Conference, Madison, WI, August 22-24, 2001.
10. E. S. Shuman, C. M. Evans, and T. F. Gallagher, "Electric field enhancement of the microwave resonances of dielectronic recombination," Annual Meeting of the American Physical Society Division of Atomic, Molecular and Optical Physics, Williamsburg, VA, May 28 - June 1, 2002.
11. C. M. Evans and G. L. Findley, "Field ionization of CH₃I in supercritical Ar," 36th Synchrotron Radiation Center Users' Meeting, Stoughton, WI, October 25, 2003.
12. C. M. Evans and G. L. Findley, "Field ionization of CH₃I in supercritical Ar," Annual March American Physical Society Meeting, Montreal, Canada, March 22-26, 2004.
13. C. M. Evans and G. L. Findley, "Energy of the quasi-free electron in Ar and Kr," 37th Synchrotron Radiation Center Users' Meeting, Stoughton, WI, October 15-16, 2004.

4. FUNDING

1. "Molecular 'size' effects on solvation in supercritical fluids," Professional Staff Congress – CUNY, \$5,000.
2. "Structure of molecular Rydberg states in supercritical fluids," Petroleum Research Foundation, \$35,000.
3. "Field ionization of trimethylamine in supercritical xenon," Professional Staff Congress – CUNY, \$4,886.