

Radial Probability Distributions and Effective Charge Fields to Understand
Fourth Row Configuration and Ionization Behavior: The Case of (process).

Book Review for

J. Chem. Ed., 81 (2004).

The Case of
NO₂ and N₂O₄ at 283 K. Sci. Mix Session, American Chemical Society Meeting,
Anaheim, CA. 03/04.

The Case of NO₂ and N₂O₄
*Gordon Research Conference on Atmospheric Chemistry, September, 2003, Big
Sky, Montana*

A CRAS Approach to NO₂ presented to the Department of Chemistry,
The College of the Holy Cross, 12/18/02.

Department of Chemistry, Virginia Polytechnic Institute, 03/10/00.

NO₂ Unimolecular Decomposition: Accessing H+HCO products via
S₀ and T₁ -Georget,
M. Zyrianov, A. Kolessov, C. Wittig, *J. Chem. Phys.*, **112**(6), 2752 (2000).

Rotational Excitation in the Photoinitiated Unimolecular Decomposition of
H₂
M. J. Dulligan, M. F. Tuchler, J. S. Zhang, A. Kolessov, C. Wittig, *Chem. Phys. Lett.*
276, 84 (1997).

-Time Study of Bimolecular Interactions Direct Detection of Internal
Conversion Involving Br(²P_{1/2}) + I₂(v=0) → Br(²P_{3/2}) + I₂
Wright, J. D. McDonald, *J. Chem. Phys.* 106, 2634 (1997).

Br(²P_{3/2}) + I₂ → Br(²P_{1/2}) + I₂(v=0) F.
Tuchler, J. D. McDonald; *Chem. Phys. Lett.* **226**, 570 (1994).

COURSES TAUGHT

- Chemistry 110 General Chemistry (as of 2012)
- Chemistry 111 General Chemistry
- Chemistry 112 - Aqueous Inorganic and Quantitative Chemistry
- Chemistry 151 The Chemistry of Cooking
- Chemistry 165 Dynamic Systems Modeling and Global Climate
- Chemistry 210 Structure and Reactivity of Molecules
- Chemistry 211 Quantitative Analytical Chemistry
- Chemistry 260 Physical Chemistry for the Biological Sciences
- Chemistry 261 - Thermodynamics, Kinetics and Statistics

Chemistry 262 Quantum Mechanics and Spectroscopy
Chemistry 266, 267 Physical Chemistry Laboratory
Chemistry 295B Developments in Physical Chemistry
Chemistry 365 Advanced Physical Chemistry: Angular Momentum in Chemistry
Chemistry 365 Advanced Physical Chemistry: Atmospheric Chemistry
Chemistry 365 Advanced Physical Chemistry: Statistical Thermodynamics, Entropy, and Kinetics
Chemistry 421 Directed Individual Research
Chemistry 471 Senior Thesis
Chemistry 493 Honors Thesis

PROFESSIONAL EDUCATION AND TRAINING:

Atomic and Molecular Interactions Gordon Conference, Colby-Sawyer Collage, NH, 2000.
Atoms ~~and Molec~~ Colby