

## Joseph L. Knee, Complete List of Publications

1. The  ${}^1\text{B}_{2\text{u}} \leftarrow \leftarrow {}^1\text{A}_{1\text{g}}$  Two-photon Spectra of Several Isotopes of Benzene by Supersonic Beam Multiphoton Ionization Spectroscopy, A. Sur, J. L. Knee and P. M. Johnson, *J. Chem. Phys.*, **77**, 645 (1982).
2. *Photochemistry of Benzene and Oxygen in Supersonic Cluster Beams*, J. L. Knee, C. E. Otis and P. M. Johnson, *J. Phys. Chem.*, **88**, 4467 (1982).
3. *The Identification of Channel Three in Isolated Benzene*, C. E. Otis, J. L. Knee and P. M. Johnson, *J. Chem. Phys.*, **78**, 2091 (1983).
4. *Nonradiative Processes in the Channel Three Region of the  $S_1$  State of Ultracold Benzene*, C. E. Otis, J. L. Knee and P. M. Johnson, *J. Phys. Chem.*, **87**, 2232 (1983).
5. *Triplet State Non-radiative Lifetimes of Collision free Aniline and Aniline-Ar Complexes Above the  $S_1$  Origin*, J. L. Knee and P. M. Johnson, *J. Chem. Phys.*, **80**, 13 (1984).
6. *Nonradiative Transitions in Collisionless Perdeuterobenzene*, J. L. Knee, C. E. Otis and P. M. Johnson, *J. Chem. Phys.*, **81**, 4455 (1984).
7. *Intramolecular Dephasing in Pyrazine: Direct Picosecond Time Resolution*, J. L. Knee, F.E. Doany and A. H. Zewail, *J. Chem. Phys.*, **82**, 1042 (1985).
8. *Lifetimes of Dissociation-relaxed Triplet States of Pyrazine and Pyrimidine*, J. L. Knee and P. M. Johnson, *J. Phys. Chem.*, **89**, 948 (1985).
9. *Picosecond Mass Spectrometry of a Collisionless Photodissociation Reaction*, J. L. Knee, L. R. Khundkar and A. H. Zewail, *J. Chem. Phys.*, **82**, 4715 (1985).
10. *IVR in Isolated Molecules with Nearby Electronic States*, J. L. Knee, L. R. Khundkar and A. H. Zewail, *J. Phys. Chem.*, **89**, 3201 (1985).
11. *Picosecond Monitoring of Chemical Reactions in Molecular Beams: Photofragmentation of  $R-\text{I} \rightarrow R \neq + \text{I}$* , J. L. Knee, L. R. Khundkar and A. H. Zewail, *J. Chem. Phys.*, **83**, 1996 (1985).
12. *Picosecond Photofragmentation of Tri- and Tetraatomic Molecules: Measurement of "State-to-State" Reaction Rates*, J. L. Knee, L. R. Khundkar and A. H. Zewail, *J. Phys. Chem.*, **88**, 4659 (1985).
13. *Femtosecond Photofragment Spectroscopy: The Reaction  $\text{ICN} \rightarrow \text{I} + \text{CN}$* , N. F. Scherer, J. L. Knee and A. H. Zewail, *J. Phys. Chem.*, **89**, 5141 (1985).
14. *Picosecond Photofragment Spectroscopy: I. Microcanonical State-to-State Rates of the* *Phys.*, **87**, 77 (1987).
15. *Picosecond Photofragment Spectroscopy: III. Vibrational Predissociation of van der Waals' Clusters*, J. L. Knee, L. R. Khundkar and A. H. Zewail, *J. Chem. Phys.*, **87**, 115 (1987).
16. *Luminescence Spectra and Lifetimes of Cerium(III) Compounds as Indicators of Solution Behavior and Radiative Efficiency*, P. N. Hazin, C. Lakshminarayan, L.S. Brinen, J.L. Knee, J.W. Bruno, William E. Streib and Kirsten Folting, *Inorg. Chem.*, **27**, 1393 (1988).

17. *Ultrafast Laser Spectroscopy of Chemical Reactions*, J. L. Knee and Ahmed H. Zewail, *Spectroscopy*, **3**, 44 (1988).
18. *Ultrashort Laser Pulse Chemistry and Spectroscopy*, J. L. Knee, *Encyclopedia of Physical Science and Technology*, 1990 Yearbook, Academic Press.
19. *Spectroscopy and Dynamics of the S<sub>1</sub> State of Jet-Cooled 1-Naphthol*, C. Lakshminarayan and J.L. Knee, *J. Phys. Chem.*, **94**, 2639 (1990).
20. *Picosecond measurements of vibrational dynamics using pump-probe laser photoelectron spectroscopy*, *J. Chem. Phys.*, J.M. Smith, C. Lakshminarayan and J. L. Knee, **93**, 4475 (1990).
21. *Laser photoelectron spectroscopy of 1- and 2-naphthol: relative stability of the cis and trans cation rotamers*, *Chem. Phys. Lett.*, C. Lakshminarayan, J.M. Smith and J.L. Knee, **182**, 656 (1991).
22. *High resolution threshold photoelectron spectroscopy of aniline and aniline van der Waals complexes*, X. Zhang, J.M. Smith and J.L. Knee, *J. Chem. Phys.*, **97**, 2843 (1992).
23. *Analysis of the torsional potential of 9,10-dihydrophenanthrene in three electronic states: S<sub>0</sub>, S<sub>1</sub> and cation ground state*, J. M. Smith and J.L. Knee, *J. Chem. Phys.*, **99**, 38 (1993).
24. *Electronic spectroscopy of four conformations of Jet-Cooled 1,6-Dihydroxynaphthalene*, J.M. Smith, Xu Zhang, A. Thompson, C. Lakshminarayan and J.L. Knee, *J. Phys. Chem.*, **97**, 3990 (1993).
25. *Zero electron kinetic energy photoelectron spectroscopy using picosecond lasers*, J.M. Smith, X. Zhang and J.L. Knee, *Proc. Soc. Photo-Opt. Instrum. Engrs.*, **1858**, 217 (1993).
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30. *Dynamics of large molecule van der Waals complexes studied with ZEKE spectroscopy*, X. Zhang and J.L. Knee, *Faraday Discussion of Chem. Soc.*, **97**, 299 (1994).
31. *IVR and Electronic Relaxation in the Channel Three Region of Benzene*, J.M. Smith, Xu Zhang and J.L. Knee, *J. Phys. Chem.*, **102**, 1768 (1995).
32. *Time Resolved Thresohold Ionization Spectroscopy*, J. L. Knee, Chapter in "Femtosecond Chemistry", eds. J. Manz and L. Woste, VCH, Weinheim, 1995.
33. *ZEKE Studies with picosecond lasers*, J L. Knee, Chapter in "Highly resolved laser photoionization and photoelectron studies" Current Topics in Ion Chemistry and Physics, eds. T. Baer, C. Ng and I. Povis ( Wiley, New York) 1995.

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36. *Dynamics of Vibronically Excited Fluorene-Ar<sub>n</sub> (n=4-5) Clusters*, Jonathan D. Pitts and J.L. Knee, *J. Chem. Phys.*, **108**, 9632 (1998).
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43. *Conformational Analysis and Dynamics of 9-Propylfluorene and 9-Ethylfluorene*, Swarna Basu and J.L. Knee, *J. Phys. Chem., A* **105**, 5842 (2001).
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49. *Characterization of the Dynamics of an Essential Helix in the UIA Protein By Time-Resolved Fluorescence Measurements*, Divina Anunciado, Michael Agumeh, Bethany L. Kormos, David L. Beveridge, J. L. Knee, and Anne M. Baranger, *J. Phys. Chem. B*, **112** (19), 6122 -6130, (2008).
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