

# Wai Tak Yip

## PROFESSIONAL PREPARATION

University of Hong Kong	Chemistry	B.S. 1989
University of Chicago	Physical Chemistry, Molecular Spectroscopy	Ph.D 1996
<u>Dissertation Title:</u>	“Excimer/exciple formation and intramolecular electronic interactions in a supersonic jet”	
University of Minnesota	Physical Chemistry, Molecular Spectroscopy	1996-1998
University of Minnesota	Biophysical Chemistry, tRNA Biophysics	1998-2000

## APPOINTMENTS

Assistant Professor, Dept. of Chemistry & Biochemistry, University of Oklahoma, Norman, OK	8/00-present
Postdoctoral Research Associate with Karin Musier-Forsyth, Department of Chemistry., University of Minnesota	1998-2000
Postdoctoral Research Associate with P.F. Barbara, Department of Chemistry., University of Minnesota	1996-1998

## RELATED PUBLICATIONS, most closely related to my role in project:

- (1) Ye Li and Wai Tak Yip, “Coulombic Interactions on the Deposition and Rotational Mobility Distributions of Dyes in Polyelectrolyte Multilayer Thin Films”, *Langmuir* **2004**, *submitted*.
- (2) James W. Gilliland, Kazushige Yokoyama, Wai Tak Yip, “Effect of Coulombic Interactions on Rotational Mobility of Guests in Sol-Gel Silicate Thin Films”, *Chemistry of Materials* **2004**, *accepted*.
- (3) C. Ricardo Viteri, James W. Gilliland, Wai Tak Yip, “Probing the Dynamic Guest-Host Interactions in Sol-Gel Films Using Single Molecule Spectroscopy”, *J. Am. Chem. Soc.* **2003**, 125, 1980-1987.
- (4) Wai-Tak Yip, Dehong Hu, Ji Yu, David A. Vanden Bout, Paul F. Barbara, “Classifying the Photophysical Dynamics of Single- and Multiple-Chromophoric Molecules by Single Molecule Spectroscopy”, *J. Phys. Chem. A* **1998**, 102, 7564-7575.
- (5) David A. Vanden Bout, Wai-Tak Yip, Dehong Hu, Dian-Kui Fu, Timothy M. Swager, Paul F. Barbara, “Discrete Intensity Jumps and Intramolecular Electronic Energy Transfer in the Spectroscopy of Single Conjugated Polymer Molecules”, *Science* **1997**, 277, 1074-1077.

## OTHER PUBLICATIONS

- (1) Barden Chan, Kristin Weidemaier, Wai-Tak Yip, Paul F. Barbara, Karin Musier-Forsyth, “Intra-tRNA Distance Measurements for Nucleocapsid Protein-Dependent tRNA Unwinding During Initiation of HIV Reverse Transcription”, *Proc. Natl. Acad. Sci.* **1999**, 96, 459-464.
- (2) Wai-Tak Yip, Donald H. Levy, Renata Kobetic, Piotr Piotrowiak, “Energy Transfer in Bichromophoric Molecules: The Effect of Symmetry and Donor/Acceptor Energy Gap”, *J. Phys. Chem. A* **1999**, 103, 10-20.
- (3) Wai-Tak Yip and Donald H. Levy, “Excimer/Exciple Formation in van der Waals Dimers of Aromatic Molecules”, *J. Phys. Chem.* **1996**, 100, 11539-11545.
- (4) Wai-Tak Yip and Ronald S. Tse, “A Polarograph Built on an APPLE II”, *Lab. Rob. Autom.* **1994**, 6, 5-13 (1994).
- (5) Wai-Tak Yip and Ronald S. Tse, “An Inexpensive Optical Multichannel Analyzer Built on an AT-Compatible Computer”, *Rev. Sci. Instrum.* **1992**, 63, 3777-3780.