



P.-T. Chou

The author presented on this page has recently published his **10th article** in *Angewandte Chemie* in the last 10 years:

“Zethrene and Dibenzo-zethrene: Masked Biradical Molecules?”: Y.-C. Hsieh, H.-Y. Fang, Y.-T. Chen, R. Yang, C.-I. Yang, P.-T. Chou, M.-Y. Kuo, Y.-T. Wu, *Angew. Chem. Int. Ed.* **2015**, *54*, 3069; *Angew. Chem.* **2015**, *127*, 3112.

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Position:	Distinguished Professor of Chemistry, and Director, Center for Emerging Material and Advanced Devices, National Taiwan University
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Education:	1979 BS, Department of Chemistry, The Fu-Jen Catholic University, Taipei 1984 PhD supervised by Michael Kasha, Florida State University 1985–1987 Postdoctoral fellow supervised by George Pimentel and Heinz Frei, University of California, Berkeley
Awards:	2003 Academy Award, Ministry of Education, Taiwan; 2008 National Chair Professorship, Taiwan; 2012 The Asian and Oceanian Photochemistry Association (APA) Award
Current research interests:	Excited-state proton transfer; water-catalyzed proton transfer; alloy nanoparticles; solar cells; highly emissive transition-metal complexes, MRI contrast agents
Hobbies:	Table tennis, classical guitar.

When I'm frustrated, I ... play the guitar.

I can never resist ... any new and fascinating scientific discovery.

The downside of my job is ... grant money running out.

My biggest motivation is ... my recovery from polio that I contracted when I was 10 months old. This motivation has helped me overcome a great number of difficulties during my life as well as in my scientific career.

The best advice I have ever been given is ... “You have to work independently and think intelligently as a PhD student.”

If I could go back in time and do any experiment, it would be ... the reaction of hydrogen gas with singlet molecular oxygen.

If I were not a scientist, I would be ... a musician.

My favorite sayings are ... “Never give up”; “Every cloud has a silver lining”.

The most significant scientific advance of the last 100 years has been ... the discovery of the DNA structure.

If I won the lottery, I would ... make big donation to charity.

I chose chemistry as a career because ... it is full of fun and serendipity.

My 5 top papers:

1. “Probing water micro-solvation in proteins by water catalyzed proton transfer tautomerism”: J.-Y. Shen et al., *Nature Commun.* **2013**, *4*, 2611. (The environment of water molecules inside a protein is related to the protein's folding, structure, and activity.)
2. “Insulin-Directed Synthesis of Fluorescent Gold Nano-clusters: Preservation of Insulin Bioactivity and Versatility in Cell Imaging”: C.-L. Liu et al., *Angew. Chem. Int. Ed.* **2011**, *50*, 7056; *Angew. Chem.* **2011**, *123*, 7194. (These gold–insulin nanocomposites are biocompatible and bioactive, which results in versatile biomedical applications.)
3. “Probing Interaction between Prostacyclin Synthase and Prostaglandin H₂ Analogues or Inhibitors via a Combination of Resonance Raman Spectroscopy and Molecular Dynamics Simulation Approaches”: W.-C. Chao, J.-F. Lu, J.-S. Wang, H.-C. Yang, H.-H. Chen, Y.-K. Lan, Y.-C. Yu, P.-T. Chou, *J. Am. Chem. Soc.* **2011**, *133*, 18870. (Prostaglandin I synthase provides a ligand-specific heme-conformation change for the substrate binding.)
4. “Recent Experimental Advances on Excited-State Intramolecular Proton Coupled Electron Transfer Reaction”: C.-C. Hsieh, C.-M. Jiang, P.-T. Chou, *Acc. Chem. Res.* **2010**, *43*, 1364. (Reviews our experimental and theoretical studies on the title reaction.)
5. “Ortho Green Fluorescence Protein Synthetic Chromophore; Excited-State Intramolecular Proton Transfer via a Seven-Membered-Ring Hydrogen-Bonding System”: K.-Y. Chen, Y.-M. Cheng, C.-H. Lai, C.-C. Hsu, M.-L. Ho, G.-H. Lee, P.-T. Chou, *J. Am. Chem. Soc.* **2007**, *129*, 4534. (The green fluorescence protein core analogue is able to undergo excited-state intramolecular proton transfer, resulting in a remarkable green–red emission.)

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