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Chinese University of Hong Kong  
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Birthday: September 29, 1958

### Education and Experiences

B. Sc. in chemistry, upper second class honor. The University of Hong Kong (1981)  
Ph. D. in organic chemistry under Prof. William D. Wulff, The University of Chicago (1986).  
Postdoctoral Fellow in organometallic chemistry under Prof. Jack Halpern, The University of Chicago (1986-1989)  
Associate Professor, National Taiwan University (1989-1990)  
Lecturer (1990-6), Senior Lecturer/Associate Professor (1996-2001), Professor (2002-), The Chinese University of Hong Kong

### Graduate Teaching

Graduate students trained = 25 M. Phil = 15 Ph.D. = 10

**Publication: Total = 96**

### 10 Most Representative Publications

- 1 K. S. Chan, X. Zhou, B.-S., Luo, T. C. W. Mak "Synthesis of  $\beta$ -Aryl Porphyrins by Transition Metal Catalysed Cross Coupling Reactions" *Chem. Commun.* **1994**, 271-272.
- 2 K. S. Chan, Y.-B. Leung "Synthesis of Rhodium and Iridium Oxaethylporphyrinato Metal Dimers by TEMPO." *Inorg. Chem.* **1994**, 33, 3187.
- 3 X. Zhou, K. S. Chan "Synthesis of  $\beta$ -linked porphyrin dimer and its homo-, hetero- bimetallic complexes" *Chem. Commun.* **1994**, 2493-2494.
- 4 X. Zhou, M. K. Tse, T. S. M. Wan, K. S. Chan " Synthesis of  $\beta$ -Aryl-meso-mesitylporphyrins by Suzuki Cross Coupling Reactions." *J. Org. Chem.* **1996**, 61, 3590-3593.
- 5 H. C. Zhang, F. Xue, T. C. W. Mak, K. S. Chan "Enantioselectivity Increases with Reactivity: Electronically Controlled Asymmetric Addition of Diethylzinc to Aromatic Aldehydes Catalyzed by A Chiral Pyridylphenol" *J. Org. Chem.* **1996**, 61, 8002-8003.
- 6 K. W. Mak, K. S. Chan," A Novel 1,2-Rearrangement of Porphyrinato Rhodium(III) Alkyls: *cis*  $\beta$ -Hydride Elimination/Olefin Metal-Hydride Insertion Pathway" *J. Am. Chem. Soc.* **1998** 120, 9686-9687.
- 7 F. Y. Kwong, K. S. Chan, "Synthesis of Aryl P,N Ligands by Novel Palladium Catalyzed Phosphination with Triarylphosphines - Application of Catalytic C-P Bond Activation" *Organometallics* **2000**, 19, 2058-2060.
- 8 F. Y. Kwong, C. W. Lai, K. S. Chan "Catalytic Solvent-Free Arsination: First Catalytic Application of Pd-Ar/As-Ph Exchange in the Syntheses of Functionalized Aryl Arsines" *J. Am. Chem. Soc.* **2001**, 123, 8864-8865.
- 9 K. S. Chan, X. Z. Li, C. W. Fung, L. Zhang "Aliphatic Carbon-Carbon Activation of Nitriles by Rhodium(II) Porphyrin" *Organometallics* **2007**, 26, 20-21.
- 10 K. S. Chan, L. X. Zhu Li, W. I. Dzik, B. de Bruin, "Carbon-Carbon Bond Activation of TEMPO by a Rh<sup>II</sup> Metallo-Radical: A Combined Experimental and Theoretical Study" *J. Am. Chem. Soc.* **2008**, 130, 2051-2061.