



C.-H. Cheng

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

“Rhodium(III)-Catalyzed Oxidative C–H Coupling of *N*-Methoxybenzamides with Aryl Boronic Acids: One-Pot Synthesis of Phenanthridinones”: J. Karthikeyan, R. Haridharan, C.-H. Cheng, *Angew. Chem.* **2012**, *124*, 12509–12513; *Angew. Chem. Int. Ed.* **2012**, *51*, 12343–12347.

Chien-Hong Cheng

Date of birth:	March 11, 1949
Position:	Professor and Senior Vice President, National Tsing Hua University
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Education:	1971 BS, Department of Chemistry, National Tsing Hua University 1978 PhD with Richard Eisenberg, Department of Chemistry, University of Rochester 1979 Postdoctoral research with Richard Eisenberg, University of Rochester
Awards:	2001 Chemical Society (Taiwan) Award; 2002 Ministry of Education Science Award; 2009 Fellow of the Royal Society of Chemistry
Current research	Transition-metal-catalyzed cyclization reactions involving C–H activation; organic reactions
Interests:	catalyzed by first-row transition metals; 2π -component coupling reactions; synthesis of organic and organometallic electroluminescent materials and fabrication of electroluminescent devices
Hobbies :	Tennis, badminton, walking

My biggest motivation is ... curiosity.

Guaranteed to make me smile is ... when my predictions come true.

My greatest achievement has been ... to help the chemistry department to design and construct its main building.

The most exciting thing about my research is ... the discovery of new catalytic reactions together with my students.

I would have liked to have discovered ... organic light-emitting devices.

When I'm frustrated, I ... play tennis with friends.

My favorite author is ... Jane Austen (*Pride and Prejudice*).

My favorite food is ... Japanese food.

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

If I won the lottery, I would ... be happy!

My favorite place on earth is ... Taiwan.

My best investment was ... on my kids' education.

If I were not a scientist, I would be ... an engineer.

My 5 top papers

1. “Facile Aryl–Aryl Exchange Between the Palladium Center and Phosphine Ligands in Palladium(II) Complexes”: K.-C. Kong, C.-H. Cheng, *J. Am. Chem. Soc.* **1991**, *113*, 6313–6315. (A small proportion of the products from palladium-catalyzed reactions contains aryl groups from the aryl phosphine ligands.)
2. “Cobalt-Catalyzed Highly Regio- and Stereoselective Intermolecular Reductive Coupling of Alkynes with Conjugated Alkenes”: C.-C. Wang, P.-S. Lin, C.-H. Cheng, *J. Am. Chem. Soc.* **2002**, *124*, 9696–9697. (The first reported intermolecular coupling of a carbon–carbon triple bond and double bond.)
3. “New Iridium Complexes as Highly Efficient Orange–Red Emitters in Organic Light-Emitting Diodes”: J. P. Duan, P. P. Sun, C.-H. Cheng, *Adv. Mater.* **2003**, *15*, 224–228. (OLED devices based on the title complex as an emitter can also give high device efficiency with long lifetimes.)
4. “Synthesis of Phenanthridinones from *N*-Methoxybenzamides and Arenes by Palladium-Catalyzed Multiple C–H Activation Steps at Room Temperature”: J. Karthikeyan, C.-H. Cheng, *Angew. Chem.* **2011**, *123*, 10054–10057; *Angew. Chem. Int. Ed.* **2011**, *50*, 9880–9883. (This cyclization proceeds with exceedingly high regioselectivity on both substrates.)
5. “One-Pot Synthesis of Isoquinolinium Salts by Rhodium-Catalyzed C–H Bond Activation: Application to the Total Synthesis of Oxycelerythrine”: J. Jayakumar, K. Parthasarathy, C.-H. Cheng, *Angew. Chem.* **2012**, *124*, 201–204; *Angew. Chem. Int. Ed.* **2012**, *51*, 197–200. (This reaction can be readily applied to the synthesis of many natural products.)

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