



L. Zhang

## Liming Zhang

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<b>Education:</b>	1993 BSc, Nanchang University 2003 PhD with Professor Masato Koreeda, University of Michigan, Ann Arbor 2003–2005 Postdoctoral fellow with Professor Sergey Kozmin, University of Chicago
<b>Awards:</b>	2007 Thieme Journal Award; Ralph E. Powe Junior Faculty Enhancement Award; 2008 Amgen Young Investigators Award; 2009–2011 Alfred P. Sloan Research Fellow
<b>Current research interests:</b>	Transition-metal catalysis (especially homogeneous gold catalysis), natural product synthesis, and medicinal chemistry
<b>Hobbies:</b>	Listening to music and national radio, playing tennis, running

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

“Gold-Catalyzed One-Step Construction of 2,3-Dihydro-1H-Pyrrolizines with an Electron-Withdrawing group in the 5-position: A Formal Synthesis of 7-Methoxymitosene”: Z.-Y. Yan, Y. Xiao, L. Zhang, *Angew. Chem.* **2012**, 124, 8752–8755; *Angew. Chem. Int. Ed.* **2012**, 51, 8624–8627.

**In a spare hour, I ...** check out the latest news and listen to some folk music.

**My favorite name reaction is ...** the Ferrier rearrangement.

**My favorite saying/quote is ...** “no pain, no gain”.

**If I could be any age I would be ...** twenty.

**My favorite time of day is ...** the evening, when I can be in my office alone and think about chemistry.

**My favorite way to spend a holiday is ...** to stay at home and relax.

**The secret of being a successful scientist is ...** a combination of hard work, a lot of luck, and being around great people.

**The natural talent I would like to be gifted with is ...** a photographic memory.

**When I was eighteen I wanted to be ...** a scientist, although I had hardly any idea about its exact meaning.

**If I could be described as an animal it would be ...** a horse that keeps running.

**I am waiting for the day when someone will discover ...** a computer program that can predict reaction outcomes with precision in a matter of a few hours, so I would not have to wait long to see whether my design works or not.

**If I could be anyone for a day, I would be ...** an astronaut doing a space walk.

### My 5 top papers:

1. “Tandem Au-catalyzed 3,3-Rearrangement–[2+2]-Cycloadditions of Propargylic Esters: Expedition Access to Highly Functionalized 2,3-Indoline-Fused Cyclobutanes”: L. Zhang, *J. Am. Chem. Soc.* **2005**, 127, 16804–16805. (A tandem transformation consisting of a 3,3-rearrangement and the in situ activation of the nascent carboxyallene intermediate.)
2. “Gold-Catalyzed Intramolecular Redox Reaction of Sulfinyl Alkynes: Efficient Generation of  $\alpha$ -Oxo Gold Carbenoids and Application in Insertion into R–CO Bonds”: G. Li, L. Zhang, *Angew. Chem.* **2007**, 119, 5248–5251; *Angew. Chem. Int. Ed.* **2007**, 46, 5156–5159. (One of the two coincident early examples of generating  $\alpha$ -oxo gold carbenes by intramolecular alkyne oxidation.)
3. “Gold-Catalyzed Homogeneous Oxidative Cross-Coupling Reactions”: G. Zhang, Y. Peng, L. Cui, L. Zhang, *Angew. Chem.* **2009**, 121, 3158–3161; *Angew. Chem. Int. Ed.* **2009**, 48, 3112–3115. (The first reported example of this type of reaction.)
4. “Alkynes as Equivalents of  $\alpha$ -Diazo Ketones in Generating  $\alpha$ -Oxo Metal Carbenes: A Gold-Catalyzed Expedient Synthesis of Dihydrofuran-3-ones”: L. Ye, L. Cui, G. Zhang, L. Zhang, *J. Am. Chem. Soc.* **2010**, 132, 3258–3259. (The generation of  $\alpha$ -oxo gold carbenes by intermolecular alkyne oxidation.)
5. “Experimental and Computational Evidence for Gold Vinylidenes: Generation from Terminal Alkynes via a Bifurcation Pathway and Facile C–H Insertions”: L. Ye, Y. Wang, D. H. Aue, L. Zhang, *J. Am. Chem. Soc.* **2012**, 134, 31–34. (A strong case for the intermediacy of gold vinylidenes and a rare example of dual gold catalysis.)

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