

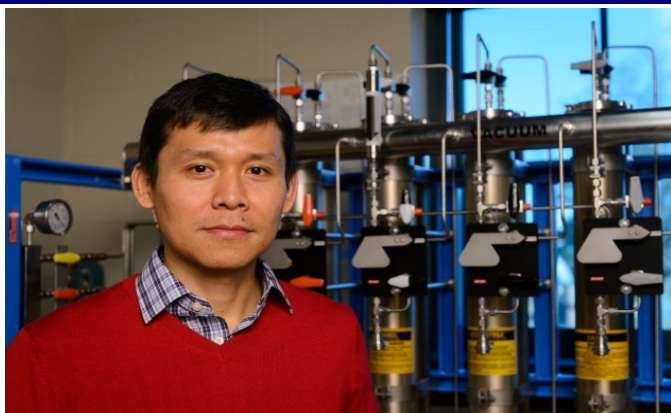
# *Inorganic Chemistry Seminar*

at the  
University of Pennsylvania

## **Mechanistic Inorganic Chemistry: From Antimicrobial Peptides to CO<sub>2</sub> Reduction**

### ***Abstract:***

*The final arbiter of our knowledge about the activity of antimicrobial peptides or metal-based catalysts is our ability to establish and test a reaction mechanism. This presentation highlights the results of studies performed in my laboratories (<http://angeles-boza.chemistry.uconn.edu/>) showing 1) how Cu<sup>2+</sup> and Zn<sup>2+</sup> are important components on the activity of two antimicrobial peptides isolated from the tick *Ixodes sinensis* and the tunicate *Styela clava*;<sup>1, 2</sup> and 2) how <sup>13</sup>C kinetic isotope effects allow the identification of the species involved in CO<sub>2</sub> reduction catalysis.<sup>3</sup>*



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*Chemistry Complex*  
*231 South 34<sup>th</sup> Street*

**Tuesday, March 21, 2017**  
**12:00PM**

