



X. Chen

## Xiaoyuan (Shawn) Chen

<b>Date of birth:</b>	April 21, 1974
<b>Position:</b>	Senior Investigator and Lab Chief, Laboratory of Molecular Imaging and Biomedicine, National Institute of Biomedical Imaging and Bioengineering, Bethesda
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<b>Education:</b>	1993 BS, Nanjing University 1996 MS, Nanjing University 1999 PhD with Professor Chien M. Wai, University of Idaho 1999–2001 Postdoctoral research fellow at Syracuse University (with Prof. Jon Zubieta) and Washington University, St. Louis (with Prof. Michael J. Welch)
<b>Awards:</b>	<b>2012</b> NIBIB Mentor Award; <b>2014</b> NIH Director's Award
<b>Current research interests:</b>	High-sensitivity nanosensors for biomarker detection and theranostic nanomedicine for imaging, gene and drug delivery, and monitoring of treatment
<b>Hobbies:</b>	Calligraphy, badminton

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

"Folding Up of Gold Nanoparticle Strings into Plasmonic Vesicles for Enhanced Photoacoustic Imaging": Y. Liu, J. He, K. Yang, C. Yi, Y. Liu, L. Nie, N. M. Khashab, X. Chen, Z. Nie, *Angew. Chem. Int. Ed.* **2015**, 54, 15809; *Angew. Chem.* **2015**, 127, 16035.

**My favorite food is** dumplings.

**My favorite motto is** "Where there's a will, there is a way".

**The downside of my job is** the need for patience, perseverance, and a positive attitude in order to get things done as a researcher supported by the federal government.

**My favorite song is** *Yesterday Once More* (The Carpenters).

**The biggest problem that scientists face is** too little time for too many ideas.

**What I look for first in a publication is** creativity and utility.

**The most important thing I learned from my parents is** "don't give up on yourself".

**If I could have dinner with three famous scientists from history, they would be** Albert Einstein, Linus Pauling, and Alexander Fleming.

**If I were not a scientist, I would be** an entrepreneur.

**My biggest motivation is** using research findings from basic science to enhance human health and well-being.

**Guaranteed to make me laugh is** watching episodes of the cartoon *Tom and Jerry*.

**The best advice I have ever been given is** "do not complain, forge your own path, make your own rules".

### My 5 top papers:

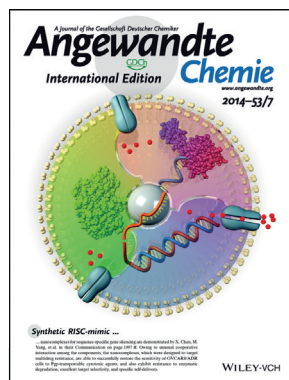
1. "Sticky Nanoparticles: A Platform for siRNA Delivery by a Bis(zinc(II) dipicolylamine)-Functionalized, Self-Assembled Nanoconjugate": G. Liu et al., *Angew. Chem. Int. Ed.* **2012** 51, 445; *Angew. Chem.* **2012**, 124, 460. (Delivering siRNA through supramolecular assembly.)
2. "In vivo biodistribution and highly efficient tumour targeting of carbon nanotubes in mice": Z. Liu, W. Cai, L. He, N. Nakayama, K. Chen, X. Sun, X. Chen, H. Dai, *Nat Nanotechnol.* **2007**, 2, 47. (In vivo application of carbon nanotubes for theranostics.)
3. "First Experience of  $^{18}\text{F}$ -Alfatide in Lung Cancer Patients Using a New Lyophilized Kit for Rapid

Radiofluorination": W. Wan et al., *J. Nucl. Med.* **2013**, 54, 691. (The first reported in-human study of a PET tracer.)

4. "Boramino acid as a marker for amino acid transporters": Z. Liu, H. Chen, K. Chen, Y. Shao, D. O. Kiesewetter, G. Niu, X. Chen, *Sci. Adv.* **2015**, 1, e1500694. (Boramino acids could be used as amino acid mimics.)

5. "Self-Illuminating  $^{64}\text{Cu}$ -doped CdSe/ZnS Nanocrystals for in Vivo Tumor Imaging": X. Sun et al., *J. Am. Chem. Soc.* **2014**, 136, 1706. (An interesting way of radiolabeling inorganic nanoparticles.)

International Edition: DOI: 10.1002/anie.201602206  
German Edition: DOI: 10.1002/ange.201602206



The work of X. Chen has been featured on the back cover of *Angewandte Chemie*:

"Biomimetic RNA-Silencing Nanocomplexes: Overcoming Multidrug Resistance in Cancer Cells": Z. Wang, Z. Wang, D. Liu, X. Yan, F. Wang, G. Niu, M. Yang, X. Chen, *Angew. Chem.* **2014**, 53, 1997; *Angew. Chem.* **2014**, 126, 2028.