D. Wang

Dayang Wang

Date of birth:	April 29, 1972
Position:	Professor, Ian Wark Research Institute, University of South Australia
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Current research interests:	Crystallization, adsorption, adhesion, and translocation at interfaces; nanoparticles and their self-assembly; hydrogels; drug delivery and diagnostics for crossing biological barriers
Hobbies:	Movies, badminton, history

*The author presented on this page has recently published his **10th article** in Angewandte Chemie in the last 10 years:*
"Bidirectional Nanoparticle Crossing of Oil–Water Interfaces Induced by Different Stimuli: Insight into Phase Transfer": A. Stocco, M. Chanana, G. Su, P. Cernoch, B. P. Binks, D. Wang, *Angew. Chem.* **2012**, *124*, 9785–9789; *Angew. Chem. Int. Ed.* **2012**, *51*, 9647–9651.

My motto is … "science lies in simplicity".

I am waiting for the day when someone will discover … a microscope to visualize water, ions, and gases.

My favorite quote is … "Common sense is the collection of prejudices acquired by age eighteen" (Albert Einstein).

I admire … artists for their capability of materializing emotion and imagination.

The secret of being a successful scientist is … to be curious, imaginative, open-minded, and critical of yourself.

My science "heroes" are … Richard Feynman and Leonardo de Vinci.

My favorite musician is … Leopold Stokowski, for his courage and creativity in transcribing the works of Bach.

My favorite book is … "The Art of Loving" (Erich Fromm).

The biggest challenge facing scientists is … to judge science without personal bias.

Looking back over my career, I … have been fortunate to meet generous and erudite mentors at every stage.

If I could be anyone for a day, I would be … a blind person, so I could not see but imagine the world.

My 5 top papers:

1. "Cells as Factories for Humanized Encapsulation": Z. Mao et al., *Nano Lett.* **2011**, *11*, 2152–2156. (The use of cell membrane vesicles derived from living cells for controlled drug release with minimal macrophage response.)
2. "Synthesis of Monodisperse Quasi-Spherical Gold Nanoparticles in Water via Silver(I)-Assisted Citrate Reduction": H. Xia, S. Bai, J. Hartmann, D. Wang, *Langmuir* **2010**, *26*, 3585–3589. (An ingenious modification of the Turkevich method, which is more than 50 years old.)
3. "Controlling the Growth of Charged-Nanoparticle Chains through Interparticle Electrostatic Repulsion": H. Zhang, D. Wang, *Angew. Chem.* **2008**, *120*, 4048–4051; *Angew. Chem. Int. Ed.* **2008**, *47*, 3984–3987. (Electrostatic repulsion can act in an anisotropic fashion to guide the self-assembly of charged particles.)
4. "Stimuli-Responsive Reversible Transport of Nanoparticles across Water/Oil Interfaces": E. W. Edwards, M. Chanana, D. Wang, H. Möhwald, *Angew. Chem.* **2008**, *120*, 326–329; *Angew. Chem. Int. Ed.* **2008**, *47*, 320–323. (Our first study of nanoparticles crossing water/oil interfaces.)
5. "Directing Self-Assembly of Nanoparticles at Water/Oil Interfaces": H. Duan, D. Wang, D. Kurth, H. Möhwald, *Angew. Chem.* **2004**, *116*, 5757–5760; *Angew. Chem. Int. Ed.* **2004**, *43*, 5639–5642. (Our first study of nanoparticles at water/oil interfaces.)

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