



F. Caruso

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

“Bio-Click Chemistry: Enzymatic Functionalization of PEGylated Capsules for Targeting Applications”: M. K. M. Leung, C. E. Hagemeyer, A. P. R. Johnston, C. Gonzales, M. M. J. Kamphuis, K. Ardipradja, G. K. Such, K. Peter, F. Caruso, *Angew. Chem.* **2012**, *124*, 7244; *Angew. Chem. Int. Ed.* **2012**, *51*, 7132.

## Frank Caruso

<b>Date of birth:</b>	January 1, 1968
<b>Position:</b>	Professor and ARC Federation Fellow, The University of Melbourne
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<b>Education:</b>	1989 BSc, The University of Melbourne 1994 PhD supervised by Franz Grieser and Peter Thistlethwaite, The University of Melbourne 1994–1996 Postdoctoral Fellow with D. Neil Furlong, CSIRO, Division of Chemicals and Polymers, Melbourne 1997–1998 Alexander von Humboldt Research Fellow with Helmuth Möhwald, Max Planck Institute of Colloids and Interfaces, Germany
<b>Awards:</b>	<b>2001</b> Federation Fellowship (Inaugural), Australian Research Council; <b>2005</b> Le Fèvre Memorial Prize, Australian Academy of Science; <b>2006</b> Australian Polymer Science & Technology Award, Royal Australian Chemical Institute; <b>2007</b> Federation Fellowship, Australian Research Council; <b>2012</b> ACS Nano Lectureship Award; Australian Laureate Fellowship, Australian Research Council
<b>Current research:</b>	Biomaterials; polymer assembly; colloid and interface science; molecular recognition
<b>Hobbies:</b>	Tennis, cycling, jogging

**My favorite food is ...** Thai (red) curry.

**The most exciting thing about my research is ...** working with bright, dynamic, and motivated researchers.

**The best advice I have ever been given is ...** persevere and focus on achieving your goals.

**The worst advice I have ever been given was ...** just relax.

**The downside of my job is ...** administrative duties.

**When I'm frustrated, I ...** go for a walk or jog.

**I like refereeing because ...** I am often inspired by the new science.

**The most important thing I learned from my parents is ...** honesty.

**My favorite place on earth is ...** home.

**I chose chemistry as a career because ...** I was (and still am) fascinated by chemical reactions.

**My best investment was ...** my education.

**My not-so-secret passion is ...** spending time with family.

### My 5 top papers:

1. “Targeting of Cancer Cells Using Click-Functionalized Polymer Capsules”: M. M. J. Kamphuis, A. P. R. Johnston, G. K. Such, H. H. Dam, R. A. Evans, A. M. Scott, E. C. Nice, J. K. Heath, F. Caruso, *J. Am. Chem. Soc.* **2010**, *132*, 15881–15883. (Antibody functionalization of multilayered capsules by using click chemistry.)
2. “Triggered Enzymatic Degradation of DNA within Selectively Permeable Polymer Capsule Microreactors”: A. D. Price, A. N. Zelikin, Y. Wang, F. Caruso, *Angew. Chem.* **2009**, *121*, 335–338; *Angew. Chem. Int. Ed.* **2009**, *48*, 329–332. (An example of a triggered, controlled, and continuous chemical reaction for the modification of DNA within a synthetic polymer reaction vessel.)
3. “Assembly of Ultrathin Polymer Multilayer Films by Click Chemistry”: G. K. Such, J. F. Quinn, A. Quinn, E. Tjijto, F. Caruso, *J. Am. Chem. Soc.* **2006**, *128*, 9318–9319. (Click chemistry can be applied for the formation of ultrathin multilayer films from polymers of the same charge.)
4. “Optically Addressable Nanostructured Capsules”: B. Radt, T. Smith, F. Caruso, *Adv. Mater.* **2004**, *16*, 2184–2189. (Enzyme-loaded, nanoparticle-functionalized capsules can be irradiated in the near-infrared region for enzyme release.)
5. “Nanoengineering of Inorganic and Hybrid Hollow Spheres by Colloidal Templating”: F. Caruso, R. A. Caruso, H. Möhwald, *Science* **1998**, *282*, 1111–1114. (Seminal paper on the preparation of hollow capsules by using layer-by-layer assembly.)

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