



Y. Yamauchi

The author presented on this page has published more than **10 articles** in *Angewandte Chemie* in the last 10 years, most recently: "Polymeric Micelle Assembly with Inorganic Nanosheets for Construction of Mesoporous Architectures with Crystallized Walls": B. Prasad Bastakoti, Y. Li, M. Imura, N. Miyamoto, T. Nakato, T. Sasaki, Y. Yamauchi, *Angew. Chem. Int. Ed.* **2015**, 54, 4222; *Angew. Chem.* **2015**, 127, 4296.



The work of Y. Yamauchi has been featured on the back cover of *Angewandte Chemie*: "Electrochemical Synthesis of One-Dimensional Mesoporous Pt Nanorods Using the Assembly of Surfactant Micelles in Confined Space": C. Li, T. Sato, Y. Yamauchi, *Angew. Chem. Int. Ed.* **2013**, 52, 8050; *Angew. Chem.* **2013**, 125, 8208.

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Education:	1999–2003 BEng, Waseda University 2003–2004 MEng, Waseda University 2004–2007 PhD, Waseda University
Awards:	2007 Mizuno Award, Waseda University; 2010 The Ceramic Society of Japan (CerSJ) Award for Advancements in Ceramic Science and Technology; 2010 Inoue Research Award for Young Scientists; 2012 Tsukuba Encouragement Prize; 2013 Young Scientists' Prize from the Japanese Ministry of Education, Culture, Sports, Science and Technology; 2014 The Chemical Society of Japan Award for Young Chemists
Current research interests:	Use of self-assembly processes to synthesize inorganic nanoporous materials with controlled compositions and morphologies
Hobbies:	Chatting, scuba diving

If I had one year of paid leave I would ... sail around the world with my family.

If I could be a piece of lab equipment, I would be ... a magnetic stirrer, simple but essential.

The natural talent I would like to be gifted with is ... the memory of an elephant.

The biggest challenge facing scientists is ... to detach themselves from work that has already been done in order to innovate.

Chemistry is fun because ... with the right knowledge, you can really build anything out of nothing.

In a spare hour, I ... go outside and enjoy whatever weather the day has to offer.

My favorite quote is ... "Everything is theoretically impossible until it is done" (Robert A. Heinlein).

If I could be any age I would be ... my own age, as I don't have any regrets and the future will come soon enough.

My biggest inspiration is ... the constant need to evolve and self-develop.

I advise my students to ... not drift away from their main goals.

My favorite principle is ... the concept of entropy; so when I was a kid I could justify why my room was a mess!

My 5 top papers:

1. "Mesoporous Platinum with Giant Mesocages Templated from Lyotropic Liquid Crystals Consisting of Diblock Copolymers": Y. Yamauchi, A. Sugiyama, R. Morimoto, A. Takai, K. Kuroda, *Angew. Chem. Int. Ed.* **2008**, 47, 5371; *Angew. Chem.* **2008**, 120, 5451. (The first reported example of large-sized mesoporous metals synthesized by an electrochemical approach.)
2. "Direct Synthesis of Spatially-Controlled Pt-on-Pd Bimetallic Nanodendrites with Superior Electrocatalytic Activity": L. Wang, Y. Nemoto, Y. Yamauchi, *J. Am. Chem. Soc.* **2011**, 133, 9674. (The first reported preparation of bimetallic nanocolloids by a surfactant-assisted solution-phase synthesis.)
3. "Synthesis of Prussian Blue Nanoparticles with a Hollow Interior by Controlled Chemical Etching": M. Hu, S. Furukawa, R. Ohtani, H. Sukegawa, Y. Nemoto, J. Reboul, S. Kitagawa, Y. Yamauchi, *Angew. Chem. Int. Ed.* **2012**, 51, 984; *Angew. Chem.* **2012**, 124, 1008. (A facile approach for the preparation of hollow coordination polymers.)
4. "Field-Induced Alignment Controls of One-Dimensional Mesochannels in Mesoporous Materials": Y. Yamauchi, *J. Ceram. Soc. Jpn.* **2013**, 121, 831. (A personal review of recent progress in mesoporous materials research.)
5. "Electrochemical synthesis of mesoporous gold films toward mesospace-stimulated optical properties": C. Li, Ö. Dag, T. D. Dao, T. Nagao, Y. Sakamoto, T. Kimura, O. Terasaki, Y. Yamauchi, *Nature Commun.* **2015**, 6, 6608. (A soft-templating method to fabricate mesoporous gold films by using stable micelles of diblock copolymers.)

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