

Candidate application to the ISGS Board of Directors

Prof./Dr. Name

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CV with main research interests

Dr. Atsushi Shimojima is currently a professor of the Department of Applied Chemistry at Waseda University, Japan. He received his Ph.D. degree in 2002 from Waseda University (Supervisor: Prof. Kazuyuki Kuroda). Owing to his achievements, he was selected as a research fellow of the Japan Society for the Promotion of Science (JSPS) and continued his research as a Pos-doc. From 2004 to 2005, he spent one year at the University of California, Santa Barbara (Prof. Galen D. Stucky's group). In 2006, he became an assistant professor of the University of Tokyo and was promoted to an associate professor in 2008. In 2013, he moved to Waseda University as an associate professor and was promoted to a full professor in 2017. He received the CerSJ Awards for advancements in ceramic science and technology in 2006 from the Ceramic Society of Japan (CerSJ). His present research interests include self-assembly of nanobuilding blocks into porous materials and design of silica-based photo-responsive materials and self-healing materials.

5 representative publications

1. S. Saito, H. Wada, A. Shimojima*, and K. Kuroda, "Synthesis of Zeolitic Macrocycles Using Site-Selective Condensation of Regioselectively Difunctionalized Cubic Siloxanes", *Inorg. Chem.*, 57, 14686-14691 (2018).
2. S. Itoh, S. Kodama, M. Kobayashi, S. Hara, H. Wada, K. Kuroda, A. Shimojima*, "Spontaneous Crack Healing in Nanostructured Silica-Based Thin Films", *ACS Nano*, 11, 10289-10294 (2017).
3. S. Guo, K. Matsukawa, T. Miyata, T. Okubo, K. Kuroda, A. Shimojima*, "Photoinduced Bending of Self-Assembled Azobenzene-Siloxane Hybrid", *J. Am. Chem. Soc.*, 137, 15434-15440 (2015).
4. S. Sakamoto, Y. Tamura, H. Hata, Y. Sakamoto, A. Shimojima*, K. Kuroda*, "Molecularly Designed Nanoparticles by Dispersion of Self-Assembled Organosiloxane-Based Mesophases", *Angew. Chem. Int. Ed.*, 53, 9173-9177 (2014).

5. Y. Wada, K. Iyoki, A. Sugawara-Narutaki, T. Okubo, A. Shimojima*, "Diol-Linked Microporous Networks of Cubic Siloxane Cages", *Chem. Eur. J.*, 19, 1700-1705 (2013)

Statement of interest

I have been working mainly in the field of Sol-Gel chemistry, and I would like to contribute to the further development of the ISGS as a board member. By making use of my experiences as an organizing committee member of several domestic and international conferences, I will make efforts to increase the visibility of the ISGS and to promote the participation of researchers from other fields to activate the Sol-Gel community. I will also try to further enhance the support of young researchers who will lead the next generation.