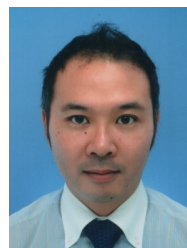


Candidate application to the ISGS Board of Directors

Prof. / Dr. Kiyofumi KATAGIRI

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CV with main research interests

Dr. Kiyofumi Katagiri is an associate professor of Graduate School of Engineering in Hiroshima University. He received his B.Eng. degree from Osaka Prefecture University (supervisor: Prof. T. Minami), and his Ph.D. degree from Nara Institute of Science and Technology (supervisor: Prof. K. Ariga). He spent two years as a postdoctoral fellow at The University of Melbourne (supervisor: Prof. F. Caruso). He stayed at Nagoya University as an assistant professor for 5 years. He joined Hiroshima University in 2011 and was promoted to the associate professor in 2014. He was also appointed as a program officer of the Grant-in-Aid for Scientific Research in the Ministry of Education, Culture, Sports, Science and Technology (MEXT), Japan for 2 years. He is currently selected as the "Distinguished Researcher" in Hiroshima University. He received D. R. Ulrich Award in 2007 from the ISGS, and the CerSJ Awards for advancements in ceramic science and technology in 2009 from the Ceramic Society of Japan (CerSJ). His current main research interests include biomimetic materials and organic-inorganic nanohybrid materials based on sol-gel technology, colloid and surface chemistry, and supramolecular chemistry. He has also been working on sol-gel materials for photocatalytic and biomedical applications.

5 recent publications

- [1] K. Katagiri*, Y. Tanaka, K. Uemura, K. Inumaru, T. Seki, Y. Takeoka, "Structural Color Coating Films Composed of an Amorphous Array of Colloidal Particles via Electrophoretic Deposition," *NPG Asia Mater.*, **9**, e355 (2017).
- [2] R. Kawasaki, Y. Sasaki*, K. Katagiri, S. Mukai, S. Sawada, K. Akiyoshi*, "Magnetically Guided Protein Transduction by Hybrid Nanogel Chaperones with Iron Oxide Nanoparticles," *Angew. Chem. Int. Ed.*, **55**, 11549 (2016).
- [3] T. Ohashi, T. Sugimoto, K. Sako, S. Hayakawa, K. Katagiri*, K. Inumaru*, "Enhanced photocatalytic activity of Pt/WO₃ photocatalyst combined with TiO₂ nanoparticles by polyelectrolyte-mediated electrostatic adsorption," *Catal. Sci. Technol.*, **5**, 1163 (2015).
- [4] K. Katagiri*, S. Yamazaki, K. Inumaru, K. Koumoto, "Anti-Reflective Coatings Prepared via Layer-by-Layer Assembly of Mesoporous Silica Nanoparticles and Polyelectrolytes," *Polym. J.*, **47**, 190 (2015).
- [5] K. Katagiri*, R. Takabatake, K. Inumaru, "Robust Infrared-Shielding Coating Films Prepared Using Perhydropolysilazane and Hydrophobized Indium Tin Oxide Nanoparticles with Tuned Surface Plasmon Resonance," *ACS Appl. Mater. Interfaces*, **5**, 10240 (2013).

Statement of interest

As a board member, I would be active in promoting sol-gel science and technology internationally. I will connect the sol-gel community with other materials science fields. I have experience to participate in organizing committee of several domestic / international conferences, including the XVIII International Sol-Gel Conference. Therefore, I hope to contribute to the further successful development of ISGS activities. Especially, I am willing to collaborate with other board members to reinforce the member benefits of the ISGS.