

The 31st Australian Colloid and Surface Science Student Conference participant report

First of all I am grateful to this opportunity offered from Bayreuth-Melbourne Polymer/Colloid Network and the invitation from Dr. Rico Tabor. Before the trip to Australia I was working with Dr. Cheng Li from the research group of Prof. Sven Huettnner, the topic of my working was investigation of the iodide migration phenomenon in the 2D perovskite films with the conducting of our home-built photoluminescence microscopy. My goal for this trip to Australia was the exhibition of our research direction and results, which are the research initiation, the setup of our 2D perovskite films samples and the figures yield from the iodide migration phenomenon we observed with the photoluminescence microscopy at real time scale, then to catch a glance of the research of other young researchers in Australia and communicate with them. The exhibited poster of mine in the conference showed the effort we invested into the investigation of a new energy material named perovskite.

During the conference, the posters and presentations are more than interesting. Those young researchers from the field of colloid and surface science showed their research passion in all directions, according to my polymer science background, several researches are especially attractive to me. Firstly was the Nanobubble research of Muidh Alheshibri and Vincent Craig, which illustrates the size manipulation and stabilization of the nanobubble by the control of surface charge, besides, the simple generation technique and wide application possibilities of nanobubble e.g. cleaning and planting, are the reason of attraction to me. Furthermore, Vanessa Wicklein from Uni Bayreuth shined a light on the biomedical application of the biofabrication of the spider silk scaffolds with the modifying of gelation additives, for example the bone regeneration, due to the higher biological tolerance than other materials. Most of all, the most interesting application of the spider silk scaffolds is the utilization in the bio 3D printing technique as printing ink.

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