Queensland Micro- and Nanotechnology Centre

SEMINAR

Speaker: Dr Zhongfan Jia
Australian Institute for Bioengineering and Nanotechnology (AIBN)
University of Queensland

Date: Friday 24 August 2018

Time: 1.30 pm

Venue: Room 1.08 QMF building (N74) Nathan Campus

Title: **Nitroxide Radical Materials towards Sustainable Organic Energy Storage**

Abstract:

Nitroxide radicals have found a variety of applications for example as spin probes and spin labels, superoxides dismutase mimics, antioxidants and mediation living radical polymerization for many decades. Recent years has seen a revival of nitroxide radical in polymer science owing to their new applications in highly efficient 'click' reaction, catalysis and polymer-based electrode active materials for electrochemical energy storage. This talk will introduce our recent work in synthesis and applications of nitroxide radical polymers, particularly, in energy storage.

Brief Biography:

Dr Zhongfan Jia is currently an Advanced Queensland Fellow (2018-2020) in AIBN at UQ. He was an ARC Future Fellow from 2014-2018. He received his PhD degree in polymer chemistry and physics from Fudan University, China, in 2007. He then took a postdoc position at the Centre for Advanced Macromolecular Design (CAMD) in University of New South Wales (UNSW) with Prof Tom Davis, where he worked with RAFT polymerization for polymer/biomolecules conjugation and biomedical applications. In 2009, he took the UQ Postdoctoral Research Fellowship and moved to the University of Queensland and worked with Prof Michael Monteiro at the Australian Institute for Bioengineering and Nanotechnology (AIBN). His current research interests are (i) Polymer-based electrochemical material for energy storage; (ii) Polymer-supported catalytic reaction; (iii) Living polymerization for complex polymer architecture; (iv) Synthesis of polymer nanostructures for biological application. Dr Jia has authored over 80 publications include three book chapters.

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