10th International Conference on
Chemistry
May 09-10, 2019 | Amsterdam, Netherlands

Shiao-Wei Kuo
National Sun Yat-Sen University, Taiwan

New Thermosetting Resin Based on Benzoxazine Chemistry

The organic/inorganic hybrid materials from polybenzoxazine (PBZ) have received much interesting recently due to their excellent thermal and mechanical properties, flame retardance, low dielectric constant, well-defined inorganic framework at nanosized scale level, and higher performance relative to those of non-hybrid PBZs. This talk will describe the synthesis, dielectric constants, and thermal, rheological, and mechanical properties of covalently bonded mono- and multifunctionalized benzoxazine hybrids, other functionalized benzoxazine derivatives, and non-covalently (hydrogen) bonded benzoxazine composite.

Biography

Shiao-Wei Kuo is Professor in the Department of Materials and Optoelectronic Science at National Sun Yat-Sen University, Taiwan. He received his PhD in Applied Chemistry from National Chiao-Tung University, Taiwan. After some years of postdoctoral research work there and in the University of Akron, USA, he joined National Sun Yat-Sen University as a faculty member. Now, he is also the Coordinator of Polymer Science and Engineering Program, Ministry of Science and Technology in Taiwan , RSC Fellow, associate editor in Journal of Polymer Reserach, and several editorial borad members in journals. His research interests include polymers, supramolecules, self-assembly nanostructures, mesoporous materials, POSS nanocomposites, low surface free energy materials, and polypeptides. He has published over 300 SCI papers and several book and book chapters. His total ciatition is > 10000 and H-index is 53.

kuosw@faculty.nsysu.edu.tw