**Shiying Zhu**

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**Positions and Employment**

08/2017-present PhD candidate supervised by Prof. Frances Separovic

Project: DNP-NMR studies of the antimicrobial peptide maculatin 1.1 in bacteria

09/2015-06/2017 Master candidate supervised by Prof. George R. Newkome

Project: Synthesis and characterization of metallo-supramolecules

09/2012-06/2015 Research fellowship supervised by Prof. Zhiqiang Su

Project: Synthesis of metal oxide-reduced graphene oxide nanocomposites for an electrochemical hydrazine sensor

**Education**

**08/2017- Present** PhD candidate, University of Melbourne, Australia

**09/2015-06/2017** Master of Polymer Science, University of Akron, USA, GPA: 3.785/4.0

**09/2012-06/2016** Bachelor of Polymer Engineering, Beijing University of Chemical Technology (BUCT), China, GPA: 3.44/4.33

**Most relevant publications**

1. **S. Zhu**, M. A. Sani, F. Separovic. [Interaction of cationic antimicrobial peptides from Australian frogs with lipid membranes](javascript:void(0)). *Peptide Science* **2018**, 110 (3), e24061.
2. S. A. Overall, **S. Zhu,** Eric Hanssen, F. Separovic, M. A. Sani. In situ monitoring of bacteria under antimicrobial stress using 31P solid-state NMR. *Int J Mol Sci* **2019**, *20*, 181.
3. T. Z. Xie, Y. Yao, X. Sun, K. J. Endres, **S. Zhu**, X. Wu, H. Li, J. M. Ludlow III, T. Liu, M. Gao, C. N. Moorefield, M. J. Saunders, C. Wesdemiotis, G. R. Newkome. [Supramolecular arrays by the self-assembly of terpyridine-based monomers with transition metal ions](javascript:void(0)). *Dalton Transactions* **2018**, 47 (22), 7528-7533.
4. **S Zhu**. [Terpyridine-based, coordination-driven, 2D and 3D supramolecular architectures](javascript:void(0)). Master thesis, Ohiolink **2017**, 75pp.
5. Y. Yao, S. Chakraborty, **S. Zhu**, K. J. Endres, T. Z. Xie, W. Hong, E. Manandhar, C. N. Moorefield, C. Wesdemiotis, G. R. Newkome. [Stepwise, multicomponent assembly of a molecular trapezoid possessing three different metals](javascript:void(0)). *Chemical Communications* **2017**, 53 (57), 8038-8041.
6. J. Ding, **S. Zhu**, T. Zhu, W. Sun, Q. Li, G. Wei, Z. Su. Hydrothermal synthesis of zinc oxide-reduced graphene oxide nanocomposites for an electrochemical hydrazine sensor. *RSC Advances* **2015**, 5(29), 22935-22942.