

Curriculum Vitae

Yang Liu

Gender: male **Date of birth:** May. 1st, 1988
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Education

September, 2007 ~ July, 2011: Bachelor of Chemistry
College of Chemistry and Molecular Engineering
Peking University, Beijing

September, 2012 ~ present: Department of Chemistry
UC Davis, Davis

Research Experiences

July, 2009 ~ January, 2010: **Assist a graduate to synthesize a chiral supramolecule
NIR molecule**
College of Chemistry & Molecular Engineering
Peking University, Beijing
Supervised by Prof. Xinhua Wan

- Synthesis of the core of the NIR molecule contains benzo[1,2-c:4,5-c']bis([1,2,5]thiadiazole) (BBT) unit.

March, 2010 ~ June, 2011: **Synthesis and self-assembling behavior of a
water-soluble NIR fluorescence molecule**
College of Chemistry & Molecular Engineering
Peking University, Beijing
Supervised by Prof. Xinhua Wan

- Synthesis and characterization of water-soluble NIR fluorescence molecule (TEGBBT) contains BBT unit.
- Study the solubility and aggregation in aqueous solution.

- TEGBBT would form J-aggregate in aqueous solution.
- The manuscript on this work is preparing now.

July, 2011 ~ November, 2011: **Study on the hybrid assemblies of Eu-containing polyoxometalates with the block copolymer in aqueous solution**

College of Chemistry & Molecular Engineering
Peking University, Beijing

Supervised by Dr. Zhang and Prof. Xinhua Wan

- Develop a straightforward procedure to fabricate the hybrid assemblies of lanthanide-containing POM with the block copolymer in aqueous solution
- Study the assembling behavior by light scattering and TEM.
- The emission of Eu-POM was greatly enhanced as large as 20 times through complexation.
- The hybrid assemblies have sensitivity to pH and ionic strength.
- The manu on this work has been submitted.

Publications

Zhang, J.*; Liu, Y.; Li, Y.; Zhao, H.; Wan, X*. Hybrid Assemblies of Eu-Containing Polyoxometalates and Hydrophilic Block Copolymers with Enhanced Emission in Aqueous Solution. *Angew. Chem. Int. Ed.* **2012**, *51*, 4598-4602.