

Thanthapatra Bunchuay, D.Phil

1. Contact

Tel: +66(98)-7955594

Email: thanthapatra.bun@mahidol.ac.th

Address:

Room C417B
272, Department of Chemistry,
Faculty of Science, Mahidol University,
Rama 6 Road, Ratchathewi
Bangkok, 10400 Thailand



2. Research Career

Thanthapatra Bunchuay, a recipient of the Royal Thai Scholarship (2004 – 2018), graduated from Mahidol University (Thailand) with a first class honours B.Sc. degree in 2011. After that, he carried on the research with Associate Professor Jonggol Tantirungrotechai in the functionalisation of metal-organic frameworks (MOFs) for heterogeneous catalysis applications, graduating with an M.Sc. degree in chemistry in 2014. In the same year, he moved to the United Kingdom to join the group of Professor Paul Beer at the University of Oxford, where he developed sigma-hole donor host molecules for anion and ion-pair recognition in aqueous media. Having finished his D.Phil. degree in 2018, he is now working as an inorganic chemistry lecturer at Mahidol University where he has started ***The SupraValentine Research Lab***

3. Research Area

- Supramolecular Host-Guest Chemistry
- Supramolecular Materials and Self-Assembly
- Macrocyclic Coordination Chemistry

4. Key Publications

- A Potent Halogen-Bonding Donor Motif for Anion Recognition and Anion Template Mechanical Bond Synthesis
Angew. Chem. Int. Ed., 2019, **58**, 13823-13827.
- Chalcogen Bond Mediated Enhancement of Cooperative Ion-Pair Recognition
Angew. Chem. Int. Ed., 2020, in press
- Strong and Selective Halide Anion Binding by Neutral Halogen-Bonding [2]Rotaxanes in Wet Organic Solvents
Chem. Eur. J., 2017, **23**, 4700-4707.