

Thach Ngoc TU

Center for Innovative Materials and Architectures (**INOMAR**)

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EDUCATION:

B. Eng in Chemical Engineering, May 2010

University of technology, Ho Chi Minh City, Viet Nam

Ph.D. in chemical Science, Oct 2016

University of technology, Ho Chi Minh City, Viet Nam



RESEARCH AND TEACHING EMPLOYMENT

Visiting scholar researcher

10/2014 – 08/2015

Room 224, Building 66, Material Science Division, Lawrence Berkeley National Laboratory, University of California at Berkeley, CA, USA.

PhD. Candidate

09/2010 – 2016

University of Technology, Vietnam National University - Ho Chi Minh City (VNU-HCM), Vietnam.

Undergraduate student

09/2005 – 01/2010

Chemical Engineering Department, University of Technology, Ho Chi Minh City, Vietnam.

Fields of Expertise

- Crystalline porous materials (including MOFs and ZIFs)
- Catalysis
- Proton conductivity in MOFs
- Gas adsorption

RESEARCH PUBLICATIONS IN PEER REVIEWED JOURNALS

1. **Thach N. Tu**, Nghi Q. Phan, Thanh T. Vu, Ha L. Nguyen, Kyle E. Cordova and Hiroyasu Furukawa, High Proton Conductivity at Low Relative Humidity in an Anionic Fe-based Metal-Organic Framework, *Journal of Materials Chemistry A*, **2016**, 4, 3638-3641. DOI: 10.1039/c5ta10467j.
2. **Thach N. Tu**, Khoa D. Nguyen, Truong N. Nguyen, Thanh Truong and Nam T. S. Phan, New topological $\text{Co}_2(\text{BDC})_2(\text{DABCO})$ as highly active heterogeneous catalyst for amination of

oxazoles via oxidative C-H/N-H couplings, *Catalysis Science & Technology*, **2016**, 6, 1384-1392.

DOI: 10.1039/C5CY01145K.

3. **Thach N. Tu**, Danh T. Tong, Quan T. Pham, New modified cotton fiber apply to separate ECG and EGCG from tea extract, *VNU-HCM "Science and Technology Development" Journal*, **2010**, 13, 39-48.

ORAL PRESENTATIONS

1. **Thach N. Tu**, High Proton Conductivity at Low Relative Humidity in an Anionic Fe-based Metal-Organic Framework, International Conference of *Advanced Materials Science and Nanotechnology* (IWAMSN 2016), Ha Long City, Vietnam, November, 2016.

POSTER PRESENTATIONS

1. **Thach N. Tu**, F. Gandara, Anh T. P. Phan, Anh T. L. Nguyen, Nam T. S. Phan, *Solvothermal synthesis and characterization of a flexible $[Zn_3(bmotmb)_2(bpy)_{0.5}] \cdot xDMF$ framework*, International Conference of *Advanced Materials Science and Nanotechnology* (IWAMSN 2012), Ha Long City, Vietnam, November, **2012**.
2. **Thach N. Tu**, Bao N. Truong, H. Furukawa, Kyle E. Cordova and Omar M. Yaghi, Synthesis and Characterization of Fe-Based Metal-Organic Frameworks for Methane Adsorption, International Conference of *150 Years of Beautiful Structure and Defects*, Ho Chi Minh City, Vietnam, November, **2014**.

LANGUAGE PROFICIENCY

- Native Vietnamese speaker.
- Good written and spoken English.

CHEMISTRY INSTRUMENTATION EXPERTISE

- Single + Powder X-ray Diffraction.
- Volumetric Gas Adsorption.
- Material characterization instruments (TGA, FT-IR, UV-VIS).
- Air-Free techniques including Glovebox + Schlenk Line.
- Electrical instruments (Impedance Analyzer).