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Constructing low-dimensional molecular networks on metal surfaces

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List of publications

- 1) **T. A. Pham**, F. Song, M. N. Alberti, M.-T. Nguyen, N. Trapp, C. Thilgen, F. Diederich, M. Stöhr, Heat-induced formation of one-dimensional coordination polymers on Au(111): An STM study, *Chemical Communications*, 51, 14473-14476, August, 2015.
- 2) S. Gottardi, K. Müller, L. Bignardi, J. C. Moreno-López, **T. A. Pham**, O. Ivashenko, M. Yablonskikh, A. Barinov, J. Björk, P. Rudolf, and M. Stöhr, Comparing grapheme growth on Cu(111) vs. oxidized Cu(111), *Nano Letters*, 15, 917-922, January, 2015.
- 3) **T. A. Pham**, F. Song, M.-T. Nguyen, M. Stöhr, Self-assembly of pyrene derivatives on Au(111): substituent effects on intermolecular interactions, *Chemical Communications*, 50, 14089-14092, May, 2014.
- 4) **T. A. Pham**, F. Song, M. Stöhr, Supramolecular self-assembly of metal-free naphthalocyanine on Au(111), *Physical Chemistry Chemical Physics*, 16, 8881-8885, March, 2014.
- 5) **T. A. Pham**, J. S. Kim, D. Kim, Y. T. Jeong, Preparation of Gold Nanoparticles/Graphene Hybrid Using 4-Mercaptobenzoyl Functionalized Graphene Nanosheets as Templates, *Synthesis and Reactivity in Inorganic, Metal-Organic, and Nano-Metal Chemistry*, 43, 40-45, January, 2013.
- 6) **T. A. Pham**, J. S. Kim, D. Kim, Y. T. Jeong, Facile preparation of water-dispersible graphene nanosheets by covalent functionalization with poly (3-aminobenzene sulfonic acid), *Polymer Engineering and Science*, 52, 1854-1861, March, 2012.
- 7) **T.A. Pham**, N. A. Kumar, Y. T. Jeong, Facile preparation of boronic acid functionalized Fe-core/Au-shell magnetic nanoparticles for covalent immobilization of adenosine, *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, 370, 95-101, November, 2011.
- 8) **T. A. Pham**, J. S. Kim, J. Si. Kim, Y. T. Jeong, One step reduction of graphene oxide by L-glutathione, *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, 384, 543-548, July, 2011.
- 9) **T. A. Pham**, B. C. Choi, K. T. Lim, Y. T. Jeong, A simple approach for immobilization of gold nanoparticles on graphene oxide sheets by covalent bonding, *Applied Surface Science*, 257, 3350-3357, February, 2011.

- 10) **T. A. Pham**, B. C. Choi, Y. T. Jeong, Facile covalent immobilization of cadmium sulfide quantum dots on graphene oxide nanosheets: Preparation, characterization, and optical properties, *Nanotechnology*, 21, 465603, November, 2010.
- 11) **T. A. Pham**, N. A. Kumar, and Y. T. Jeong, Covalent functionalization of graphene nanosheets with polyglycerol and their use as templates for anchoring magnetic nanoparticles, *Synthetic Metals*, 160, 2028-2036, September, 2010.
- 12) **T. A. Pham**, S. M. Son, Y. T. Jeong, Water-dispersible multi-walled carbon nanotubes and novel hybrid nanostructures, *Synthesis and Reactivity in Inorganic, Metal-Organic, and Nano-Metal Chemistry*, 40, 216-224, May, 2010.
- 13) **T. A. Pham**, F. Song, M. T. Nguyen, Z. Li, F. Studener M. Stöhr, “*On-surface polymerization of 1,3,6,8-tetrabromopyrene on Cu(111) and Au(111)*”. (Submitted)

Manuscripts in preparation:

- 1) **T. A. Pham**, F. Song, M. I. Almperti, C. Thilgen, F. Diederich, and M. Stöhr, “*Heat-induced formation of 2D coordination porous networks on Au(111)*”.
- 2) **T. A. Pham**, F. Song, V. B. Tran, J. Carlos, S. Martens, Lutz H. Gade, M. Stöhr, “*Coordination polymer networks of tetraazapyrene derivatives on Au(111): Combined STM and AFM study*”.
- 3) F. Song, **T. A. Pham**, S. Boz, U. Soydaner, M. Mayor, J. Bjork, M. Stöhr, “*From Self-assembly to on-Surface Polymerization based on protecting group chemistry*”. (ready for submission)
- 4) F. Song, **T.A. Pham**, S. Nowakowska, Q. Chen, J. Wells, M. Stöhr, “*Tunable Structures and Electronic States of a Metal-free Naphthalocyanine H₂Nc adsorbed on the Bi(100) surface*”. (ready for submission)
- 5) F. Song, **T. A. Pham**, M. I. Almperti, C. Thilgen, F. Diederich, and M. Stöhr, “*Two dimensional porous networks of porphyrin derivatives on Ag(111): A template for host-guest complexation of [60] fullerenes*”.
- 6) F. Song, **T. A. Pham**, J. Bjork, M. Stöhr, “*The formation of 1D covalently linked polymer networks of dibromopyrene on Cu(111) and Au(111)*”.
- 7) V. B. Tran, **T. A. Pham**, M. Kivala, M. Stöhr, “*Influence of hydrogen treatment on the formation of 1D polymer networks on metal surfaces*”.