

Fangyuan Tian

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EDUCATION

- Ph.D. in Analytical Chemistry*** 07/08 – 08/13
University of Delaware, Newark, DE
Thesis: Modification of Semiconductor Surfaces with Organic Molecules by Wet-Chemistry Approaches
Advisor: Andrew V. Teplyakov
- B.E. in Polymer Science & Engineering*** 09/04 – 06/08
Minor in Biotechnology
Jilin University, Changchun, Jilin Province, China

PROFESSIONAL EMPLOYMENTS

- Assistant Professor, California State University Long Beach 08/15-Present
Post-Doctoral Research and Teaching Associate, University of San Diego 09/13-07/15

COURSES TAUGHT

- California State University Long Beach**
CHEM 451 & 451L: Instrumental Methods of Analysis Fall 2015-Present
- University of San Diego**
CHEM 151: General Chemistry Spring 2015
CHEM 151L: General Chemistry Lab Spring 2014

PEER-REVIEWER

PCCP; Appl. Surf. Sci.; Chem. Comm.; Cat. Comm.; Dalton Trans.; J. Mater. Chem. A

PROFESSIONAL AFFILIATIONS

- American Chemical Society (ACS)
American Vacuum Society (AVS)
Council on Undergraduate Research (CUR)

PUBLICATIONS & PATENT

*Undergraduate researchers are underlined

1. Mosier, A.M., Larson, H.L.W., Webster, E.R., Ivos, M., **Tian, F.**, Benz, L., "Low-temperature adsorption and diffusion of methanol in ZIF-8 nanoparticle films."

Langmuir, **2016**, 32 (12), 2947-2954.*

2. **Tian, F., Mosier, A.M., Park, A., Webster, E.R., Cerro, A.M., Benz, L.**, "In situ uptake measurements of CO₂ and H₂O by nanoporous ZIF-8 thin films," *J. Phys. Chem. C* **2015**, 119 (27), 15248-15253*
3. **Cui, Y., Tian, F., Gao, F., Teplyakov, A.V.**, "Passivating silicon surfaces by fluorine containing organic molecular monolayers," *J. Phys. Chem. C* **2014**, 118(46), 26721-26728*
4. **Tian, F., Cerro, A.M., Mosier, A.M., Wayment-Steele, H.K., Shine, R.S., Park, A., Webster, E.R., Johnson, L.E., Johal, M.S., Benz, L.**, "Surface stability and characterization of a nanoporous ZIF-8 thin film," *J. Phys. Chem. C* **2014**, 118(26), 14449-14456.*
5. **Wayment-Steele, H.K., Johnson, L.E., Tian, F., Dixon, M.C., Benz, L., Johal, M.S.**, "Monitoring N₃ dye adsorption and desorption on TiO₂ surfaces: QCM-D and XPS studies," *ACS Appl. Mater. Interfaces*, **2014**, 6(12), 9093-9099.*
6. **Tian, F., Cui, Y., Teplyakov, A.V.**, "Nitroxidation of H-terminated Si(111) surfaces with nitrobenzene and nitrosobenzene," *J. Phys. Chem. C*, **2014**, 118(1), 502-512.*
7. **Tian, F., Teplyakov, A.V.**, "Silicon surface functionalization targeting Si-N linkages," *Langmuir*, **2013**, 29 (1), 13-28 (**Feature Article, Cover Art**)
8. **Tian, F., Yang, D., Opila, R.L., Teplyakov, A.V.** "Chemical and electrical passivation of Si(111) surfaces," *Appl. Surf. Sci.*, **2012**, 258, 3019-3026
9. **Tian, F., Taber, D.F., Teplyakov, A.V.** "-HN- termination of the Si(111) surface by wet chemistry," *J. Am. Chem. Soc.* **2011**, 133, 20769-20777
10. **Tian, F., Ni, C., Teplyakov, A.V.** "Integrity of functional self-assembled monolayers on hydrogen-terminated silicon-on-insulator wafers," *Appl. Surf. Sci.* **2010**, 257, 1314-1318
11. **Tian, F., Yang, W.**, "Controlled architecture of Ru(phen)₃ doped silica nanoparticles," **2008**, B.E. Thesis, Jilin University, Changchun, China. (**University Honors Thesis**)

PATENT: **Tian, F., Taber, D. F., Teplyakov, A. V.** New International PCT Patent for "An -NH- terminated silicon surface and a method for its preparation," Publication No. US20130287667 A1, Application No. US 13/989,479, Filing date: Nov. 21, 2011, Issue date: Oct. 31, **2013**

MOST RECENT CONFERENCES & WORKSHOPS

1. Tian, F., Mosier, A. M., Larson, H. W., Webster, E. R., Ivos, M., Benz, L., "Adsorption of methanol on ZIF-8 thin films under low temperature and low pressure conditions", 251st ACS National Meeting, San Diego, March 2016
2. Tian, F., Cerro, A.M., Mosier, A.M., Wayment-Steele, H.K., Johnson, L.E., Shine, R.S., Park, A., Webster, E.R., Kehr, K., Larson, H., Johal, M.S., **Benz, L.**, "Surface reactivity of nanoporous ZIF-8 thin film toward energy-related gases", 248th ACS National Meeting, San Francisco, August 2014
3. Tian, F., Benz, L., "Chemical and Surface Science of Hybrid ZIF-8 Thin Films", San Francisco, August 2014