

# Tian Tian

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<b>Education</b>	<b>PhD Candidate</b>	October 2015, Expected Graduation 2019 Department of Chemistry and Applied Biosciences, ETH Zürich
	<b>M.Sc. of Chemistry</b>	August 2012-July 2015 Department of Chemistry, Tsinghua University
	<b>B.Sc. of Chemical Biology</b>	August 2008-July 2012 Department of Chemistry, Tsinghua University
	<b>Minor in Computer Technology and Application</b>	August 2010-July 2012 Department of Computer Science and Technology, Tsinghua University
<b>Research Experience</b>	<b>Doctoral Projects</b>	2015-Current <i>Supervisor:</i> Prof. Chih-Jen Shih (ETH Zürich, Switzerland) Fundamental Research on Graphene and Other Two-Dimensional Materials <ul style="list-style-type: none"><li>• Modeling the penetration of an electric displacement field through graphene 2D electron gas.</li><li>• Modeling the wetting properties on charged graphene surface</li><li>• Graphene-gating based organic electronic devices</li></ul>
	<b>Master Work</b>	2012-2015 <i>Supervisor:</i> Prof. Guangtao Li (Tsinghua University, China) <i>Thesis Title:</i> Research of Multi-functional Photonic Crystal Systems Based on Chemical Reaction <ul style="list-style-type: none"><li>• Maleimide-containing responsive polymer inverse opal and its application in assaying of acetylcholinesterase</li><li>• Chemical and structural complexity in colloidal crystal beads using etching-reaction approach</li><li>• Multi-functional pattern formation in 3D photonic crystal film using alternative photolysis-reaction strategy</li></ul>
	<b>Laboratory Internship</b>	Summer 2012 <i>Supervisor:</i> Prof. Bart Jan Ravoo (WWU Münster, Germany) <i>Research Topic:</i> Synthesis of Guest Molecules with Tri-Responsiveness in Cyclodextrin Vesicle Linking
	<b>Bachelor Work</b>	2011-2012 <i>Supervisor:</i> Prof. Guangtao Li (Tsinghua University, China) <i>Thesis Title:</i> Synthesis of Functional Main-Chain Bile Acid Polymer by Click Reaction <ul style="list-style-type: none"><li>• Synthesis of main-chain bile acid polymers using Cu-free click chemistry with improvement of stereo selectivity</li><li>• Supramolecular assembly of main-chain bile acid polymers</li></ul>
	<b>Research Interests</b>	<ul style="list-style-type: none"><li>• Computational simulation of interfacial properties.</li></ul>

- Two-dimensional materials
- Self assembly in varied scales
- Organic synthesis with rational design

<b>Academic Awards</b>	• Teijin Academic Scholarship (first-class academic scholarship)	October 2014
	• Outstanding Graduate of Tsinghua University	July 2012
	• Tsinghua School Scholarship for elite students	January 2012
	• First-class National Scholarship	November 2011
	• Third-class Academic Scholarship	November 2010
	• Dingye Mailin Academic Scholarship	November 2009

**Language Level**    **English** (IELTS score: 7.5, tested on November 2014)

- Publications**
1. **Tian, T.**; Lin, S.; Li, S.; Zhao, L.; Santos E.; Shih, C.-J. *Langmuir* **33** pp 1282712837
  2. **Tian, T.**; Shih, C.-J. *Ind. Eng. Chem. Res.* **2017**, *56*, 10552-10581.
  3. **Tian, T.**; Rice, P. Santos, E.J.; Shih, C.-J. *Nano Lett.* **2016**, *16*, 5044-5052.
  4. **Tian, T.**; Gao, N.; Gu, C.; Li, J.; Wang, H.; Lan, Y.; Yin, X.; Li, G.; *ACS Appl. Mater. Interfaces* **2015**, *7*, 19516-19525.
  5. **Tian, T.**; Li, X.; Cui, J.; Li, J.; Lan, Y.; Wang, C.; Zhang, M.; Wang, H.; Li, G. *ACS Appl. Mater. Interfaces* **2014**, *50*, 15456-15465.
  6. Wang, Y.; **Tian, T.**; Cabane, E. *ACS Sustainable Chem. Eng.* **2017**, 10.1021/acssuschemeng.7b03104
  7. Sudhir K.; Jagielski, J.; Kallikounis, N.; Kim, Y.-H.; Wolf, C.; Jenny, F.; **Tian, T.**; Hofer, C.; Chiu, Y.-C.; Stark, W.; Lee, T.-W.; Shih, C.-J. *Nano Lett.* **2017**, *17* 5277-5284.
  8. Gao, N. **Tian, T.**; Cui, J.; Zhang, W.; Yin, X.; Wang, S.; Ji, J.; Li, G. *Angew. Chem. Int. Ed.* **2017**, *56*, 3880-3885.
  9. Wang, H.; Zhu, W.; Li, J.; **Tian, T.**; Lan, Y.; Gao, N.; Wang, C.; Zhang, M.; Faul, C. F.; Li, G. *Chem. Sci.* **2015**, *6*, 1910-1916.
  10. Zhang, M.; Yin, X.; **Tian, T.**; Liang, Y.; Li, W.; Lan, Y.; Li, J.; Zhou, M.; Ju, Y.; Li, G. *Chem. Commun.* **2015**, *51*, 10210-10213.
  11. Wang, C.; Shang, J.; Lan, Y.; **Tian, T.**; Wang, H.; Gu, J.-Y.; Liu, J. Z.; Wan L.-J.; Zhu, W.; Li, G. *Adv. Funct. Mater.* **2015**, *25*, 6009-6017.
  12. Li, W.; **Tian, T.**; Lan, Y.; Zhu, W.; Li, J.; Zhang, M.; Ju, Y.; Li, G. *Polym. Chem.* **2014**, *5*, 743-751.
  13. Wang, C.; Zhu, W.; Lan, Y.; Zhang, M.; **Tian, T.**; Wang, H.; Li, G. *J. Phys. Chem. C* **2014**, *118*, 10754-10763.
  14. Xu, D.; Zhu, W.; Wang, C.; **Tian, T.**; Cui, J.; Li, J.; Wang, H.; Li, G. *Chem. Eur. J.* **2014**, *20*, 16620-16625.
  15. Xu, D.; Zhu, W.; Wang, C.; **Tian, T.**; Li, J.; Lan, Y.; Zhang, G.; Zhang, D.; Li, G. *Chem. Commun.* **2014**, *50*, 14133-14136.
  16. Yang, H.; Li, X.; Lan, Y.; **Tian, T.**; Cui, J.; Zhu, T.; Shen, D.; Li, G. *J. Mater. Chem. C* **2013**, *1*, 6120-6128.

17. Li, W.; **Tian, T.**; Zhu, W.; Cui, J.; Ju, Y.; Li, G. *Polym. Chem.* **2013**, *4*, 3057-3068.
18. Zhu, T.; Xu, D.; Wu, Y.; Li, J.; Zhou, M.; **Tian, T.**; Jiang, Y.; Li, F.; Li, G. *J. Mater. Chem. B* **2013**, *1*, 6449-6458.
19. Li, X.; Peng, L.; Cui, J.; Li, W.; Lin, C.; Xu, D.; **Tian, T.**; Zhang, G.; Zhang, D.; Li, G. *Small* **2012**, *8*, 612-618.