

# Qicheng ZHANG (Scott)

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## PROFILE

- Focusing on the van der Waals (vdW) material fabrication, its electronic and optical properties, especially of topologically non-trivial materials.
- Skills in chemistry, mathematics, programming and electronics for material synthesis, modeling, simulation, data analysis and instrument automation.

## ACADEMIC EXPERIENCE

### University of Pennsylvania

- Visiting Scholar, Physics and Astronomy May 2017 – May 2018
- Postdoctoral Fellow, Physics and Astronomy May. 2018 – May. 2019
- Visiting Scholar, Physics and Astronomy Jun. 2019 - Present  
PI: A. T. Charlie Johnson

### The Hong Kong University of Science and Technology, Hong Kong, China

- Postdoctoral Fellow, Chemical and Biomolecular Engineering Jan. 2017 – Jan. 2018
- Ph.D., Chemical and Biomolecular Engineering Sept. 2012 – Aug. 2016  
Supervisor: Zhengtang LUO

### Zhejiang University, Hangzhou, China

- B.E., Polymer Materials and Engineering Jun. 2012

## TECHNICAL SKILLS

### Nanofabrication

Photo and electron beam lithography, nano device electrical transport and optical measurement.

## SELECTED PUBLICATION

For easy access from *Google Scholar Profile*, please click [here](#).

1. Gao, Z. \*; Berry, J. M. \*; Wang, S. \*; **Zhang, Q.C. \***; *et al.*, Large-area epitaxial growth of curvature-stabilized ABC trilayer graphene. *Nat. Commun.*, 2020, 11, 546;
2. Mandyam, S. V.; Zhao, M. Q.; Das, P. M.; **Zhang, Q.C. \***; *et al.*, Controlled Growth of Large-Area Bilayer Tungsten Diselenides with Lateral P-N Junctions. *ACS Nano*, 2019, 13 (9), 10490;
3. Gao, Z. L.; **Zhang, Q. C.**; Naylor, C. H.; *et al.*, Crystalline Bilayer Graphene with Preferential Stacking from Ni-Cu Gradient Alloy. *ACS Nano*, 2018, 12 (3), 2275-2282;
4. **Zhang, Q. C.**; Naylor, C. H.; Gao, Z. L.; *et al.*, Recoil Effect and Photoemission Splitting of Trions in Monolayer MoS<sub>2</sub>. *ACS Nano*, 2017, 11 (11), 10808-10815;
5. Abidi, I. H.; Liu, Y.; Pan, J.; Tyagi, A.; Zhuang, M. H.; **Zhang, Q. C.**; *et al.*, Regulating Top-Surface Multilayer/Single-Crystal Graphene Growth by “Gettering” Carbon Diffusion at Backside of the Copper Foil. *Adv. Funct. Mater.*, 2017, 27 (23), 1700121;
6. Zhuang, M. H.; Ou, X. W.; Dou, Y. B.; Zhang, L. L.; **Zhang, Q. C.**; *et al.*, Polymer-Embedded Fabrication of Co<sub>2</sub>P Nanoparticles Encapsulated in N,P-Doped Graphene for Hydrogen Generation. *Nano. Lett.*, 2016, 16 (7), 4691-4698.
7. **Zhang, Q. C.**; Peng, B. Y.; Chan, P. K. L.; Luo, Z. T., A pentacene monolayer trapped between graphene and a substrate. *Nanoscale*, 2015, 7 (35), 14663-14668;