

## Precise Editing on Graphene Surface

**Prof. Zhengzong Sun**

Fudan University, Shanghai, China

Zhengzong\_sun@fudan.edu.cn

### Abstract

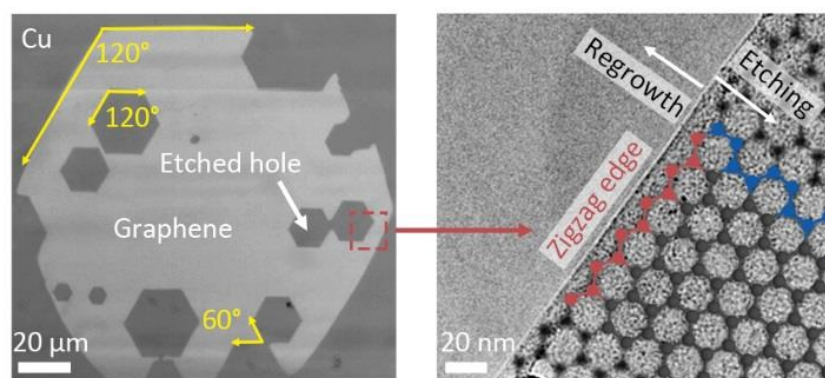
Graphene structure can be more than a group of  $sp^2$  carbon in an atomic-thin hexagonal honeycomb arrangement. Through precise and targeted chemical engineering, we could do editing on graphene surface, introduce additional spacial variety and complexity to its structure and greatly expand the material's electronic and chemical horizon, therefore granting us with properties which cannot be harvested from the single-layer graphene only.

In this presentation we would like to share some of the recent editing strategies we have been exploring in our group.

### References

- [1] *Carbon* **2017**, 119, 350-354.
- [2] *Chem. Mater.* **2019**, 31, 6105-6109.
- [3] *J. Am. Chem. Soc.* **2019**, 141, 28, 11322-11327.
- [4] *Carbon* **2020**, 167, 718-723.
- [5] *Adv. Science*, **2020**, 7, 1903003.

### Figures



**Figure:** Lateral editing of graphene surface.