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## Optical properties of hybrid systems Based on WS2 and metastructures

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# Propositions

Accompanying the dissertation

## Optical properties of hybrid systems based on WS<sub>2</sub> and metastructures

Minpeng Liang

1. When any dimension lows to its limitation, it will always make some difference. ( Chapter 1 )
2. Make things work first, and then consider making things perfect.
3. You cannot have your cake and eat it. For example, if we want to cleave thin flake, we have to compromise the size. If we use the CVD method to increase the size, we have to compromise the quality of CVD flakes and the difficulties of transferring them. The most important thing is to focus on what you need at this moment. ( Chapters 2, 3 and 5 )
4. Everything is like a mirror. Its reflection not only shows what the image looks like but also shows what the mirror itself looks like.
5. If you are good at cooking, you should also be good at device fabrication. Vice versa. ( Chapters 2, 3 and 5 )
6. The quality factor of randomized nanoparticles ( localized surface plasmon ) is 10 – 20; The quality factor of periodic nanoparticle array ( surface lattice resonance ) is usually one order higher. In other words, it is very important to work with the people who share the same goals with you! ( Chapter 4 )
7. If you want to go fast, go alone. If you want to go far, go together. If you can find a balance in between, you can go fast and far.
8. Light might be one of the most helpful tools to improve the quality of our daily lives and to explore the universe. We will change the world by manipulating the interactions of light and matter.