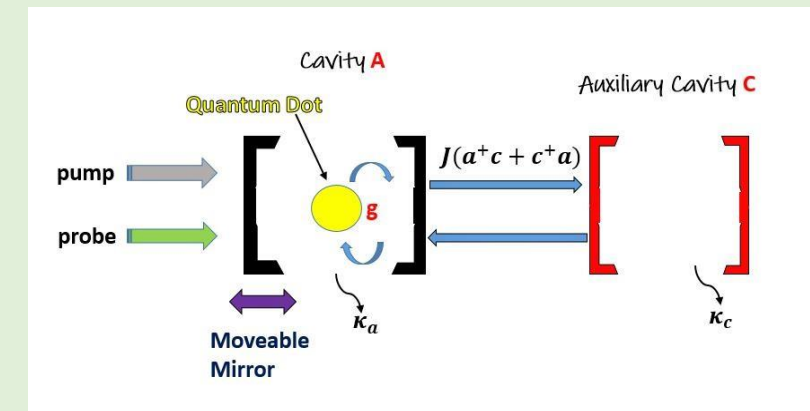
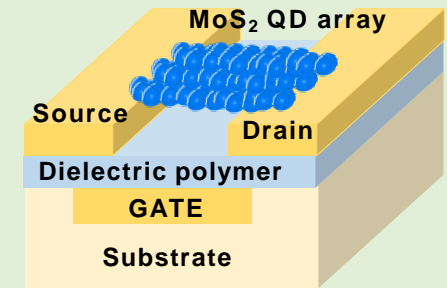


Quantum Dot Devices

1. Fundamental growth mechanism of colloidal QDs
2. Numerical simulation of growth dynamics of QDs
3. Quantum Transport Study in arrayed QDs
4. Influence and control optical response of a novel hybrid Cavity-QED system

- Key Research Areas:

- Study of hydrothermally synthesized QDs using morphological, optical and statistical tools.
- Fabrication of transistor using MoS_2 QDs as semiconductor and evaluation of temperature dependence of current-voltage characteristics.
- Theoretical study of hybrid optomechanical systems and its optical responses.



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