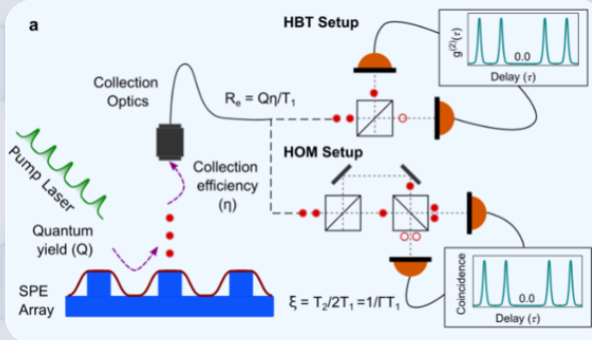
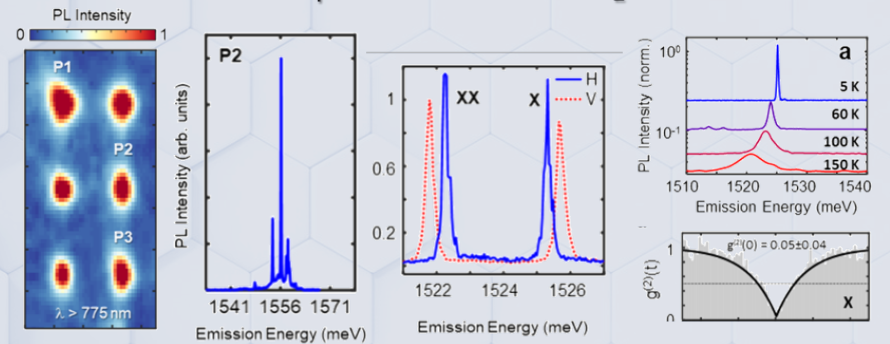


### What makes a good quantum emitter?



- Near unity quantum yield
- Near unity collection efficiency
- High purity
- Indistinguishable
- Bright

### Site-specific SPEs in WSe<sub>2</sub>



Site-specific!

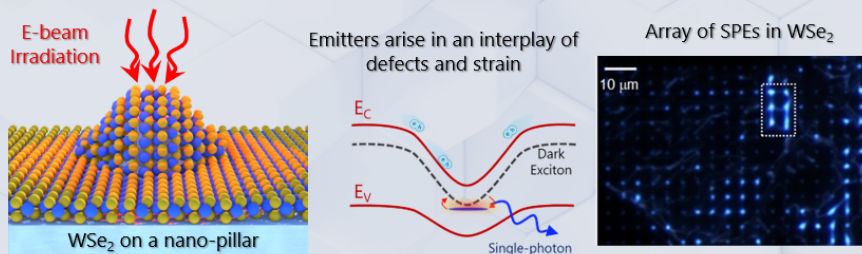
Bright!

Biexciton cascade!

Pure and High working temperature!

### 2D SPEs to the rescue!

- 2D materials are atomically thin → No loss due to internal reflections
- Quantum emitters can be engineered site-specifically



### Outlook



Towards scalable on-chip quantum light generation with 2D materials