

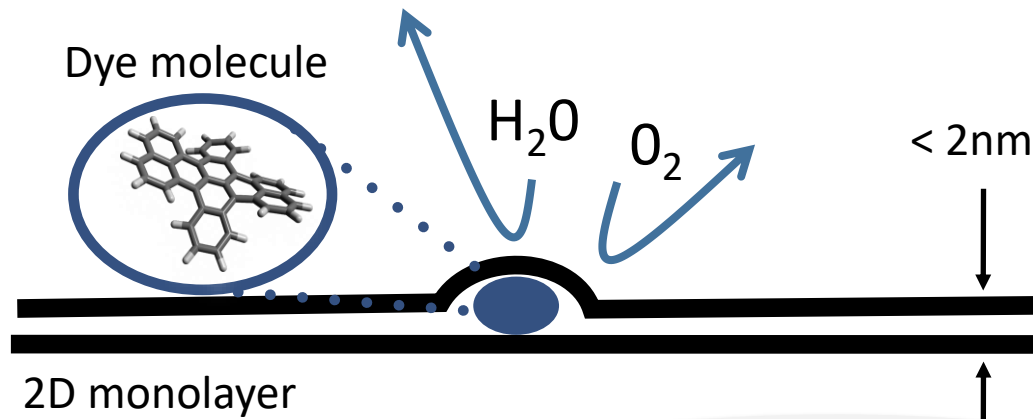
A Hybrid 2D Material/Dye Molecule Quantum Emitter For Quantum Nanophotonics



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2D material: ultrabARRIER against dye molecule degradation under ambient condition (O_2 , H_2O)

Lange J. Phys. Chem. C 2011

What happens to the molecular emission properties at cryogenic temperatures?

Can we observe narrow, stable and lifetime-limited emission?

Our final goal:

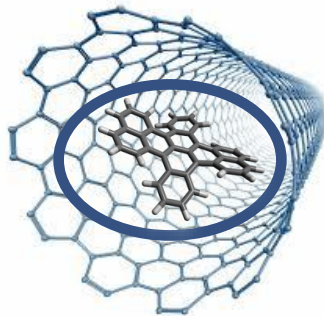
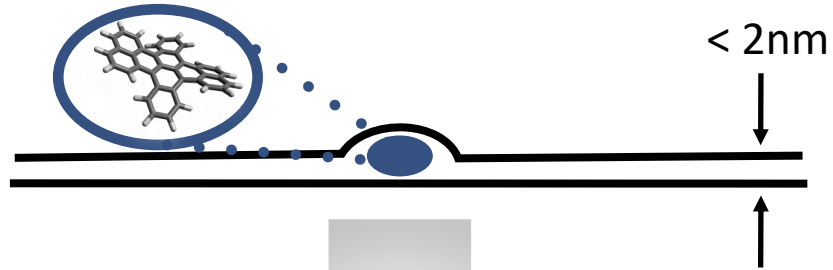
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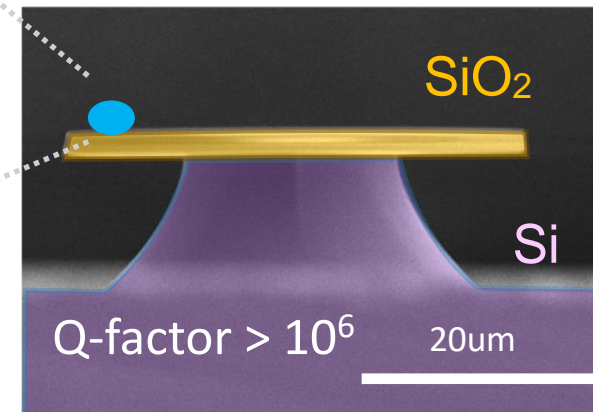
European
Commission

Horizon 2020
European Union funding
for Research & Innovation

grant agreement No 800942



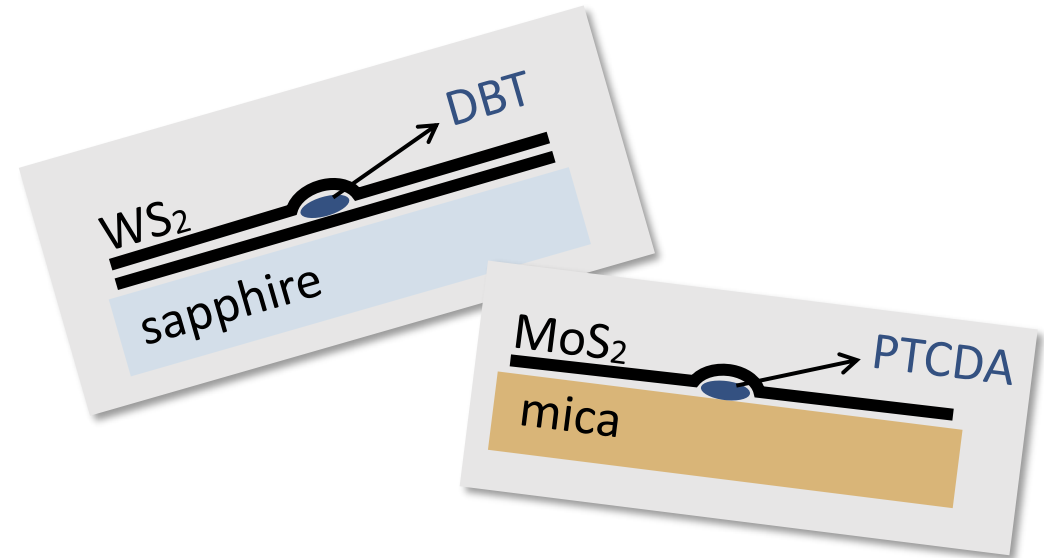
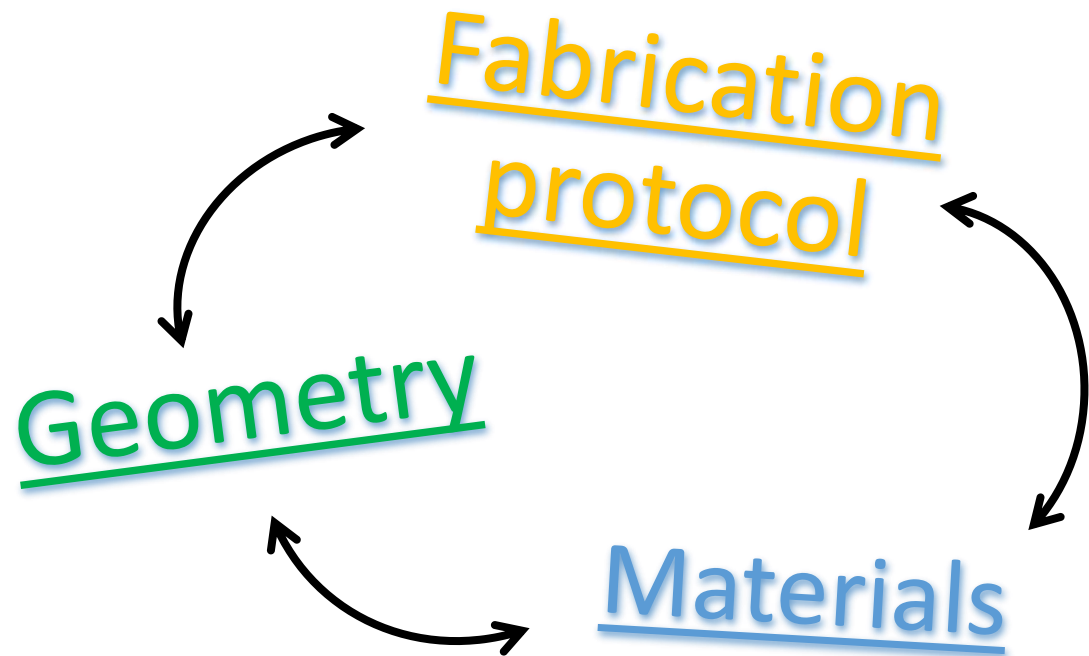
ultimate-size molecule-based quantum emitter that simultaneously provide minimum scattering losses and maximum coupling efficiency!



samples from:



In the poster you can find...



...questions and comments will be highly appreciated!
