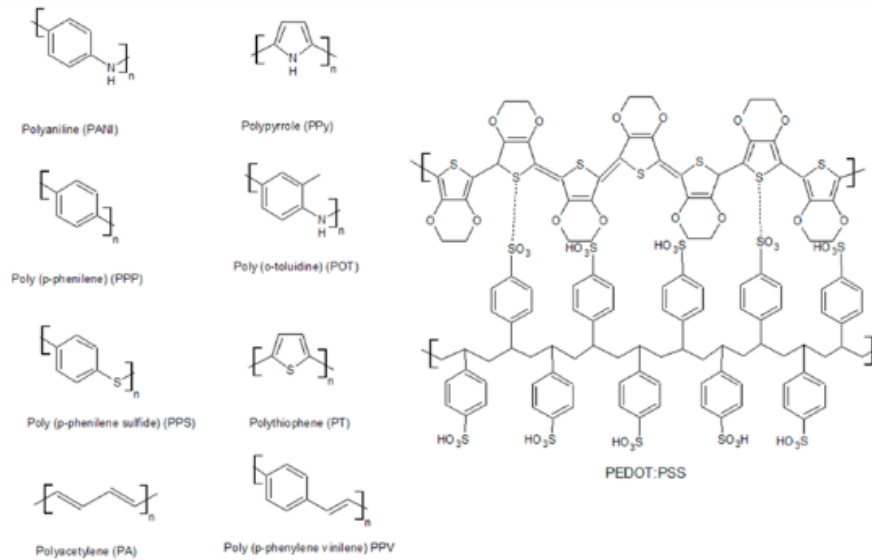


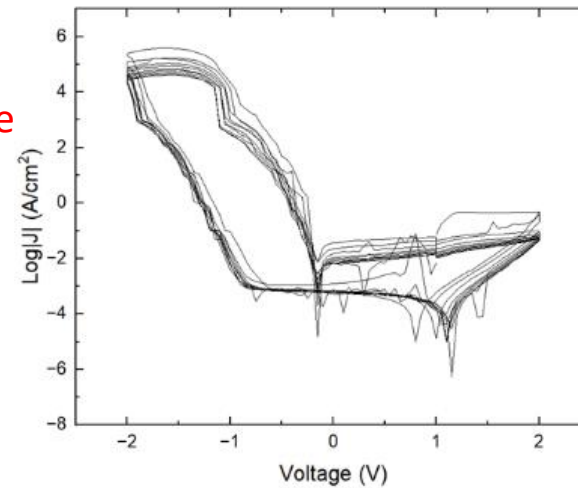
# Research Project 3: Conductive polymers as hardware for neuromorphic computing

## Conductive polymer families

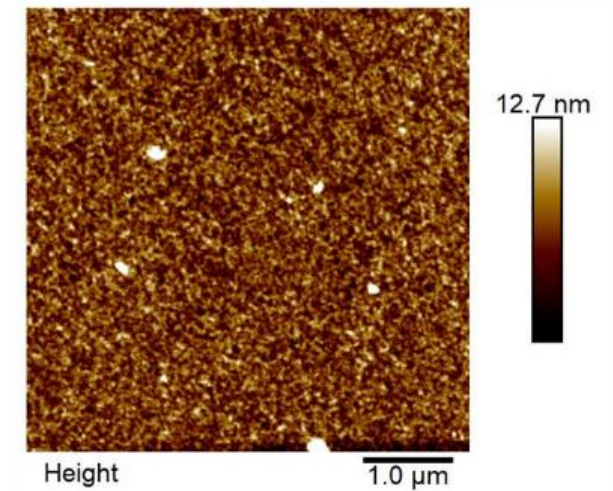


Which conductive polymer shows desired neuromorphic properties with EGaIn?

## Electrical characteristic

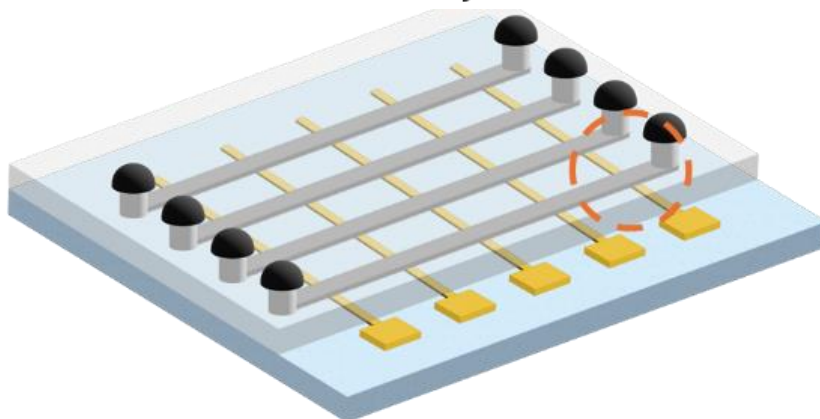


## Surface morphology characteristic



Polymers 2023, 15(18), 3783; <https://doi.org/10.3390/polym15183783>

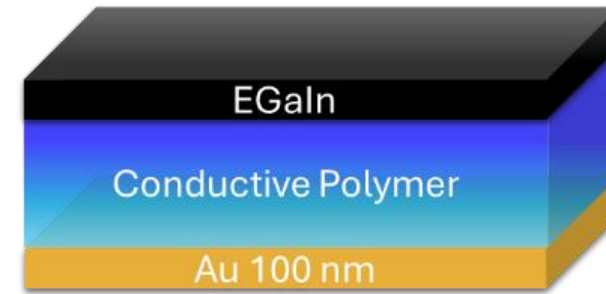
## Cross-bar array device



Zoom in



What are the surface and electrical properties of the polymer?  
Molecular junction



What is the optimal fabrication onto a device? What is the charge transport mechanism? How is the stability and performance of the device?