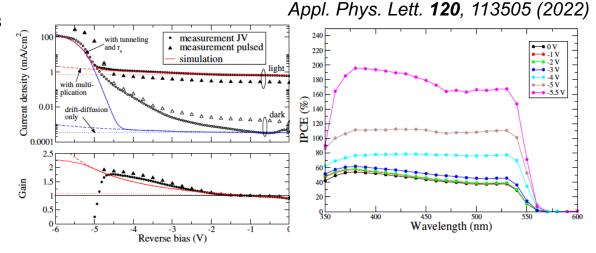
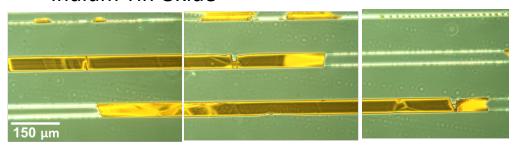
R&D on organometal halide perovskites for photodetectors

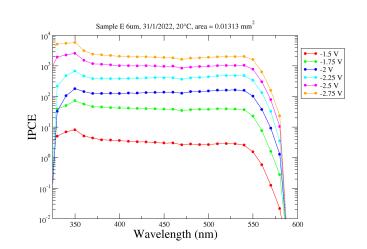
Marianna Testa, for the PEROV Collaboration

- Several devices with CH₃NH₃PbBr₃ perovskite of various thickness
- Polycrystalline film 300 nm thick
 Developed model of the observed
 IV curve and gain
 - tunneling-assisted electron extraction at the interface
 - carrier multiplication
 - Both mediated by the electric field due to mobile ions Br-



- Micro-wires W x L x H = 150 μ m x 500 μ m x 6(2) μ m
 - Direct deposition of single crystals on patterned Indium Tin Oxide





Deposited patent: 102022000010469