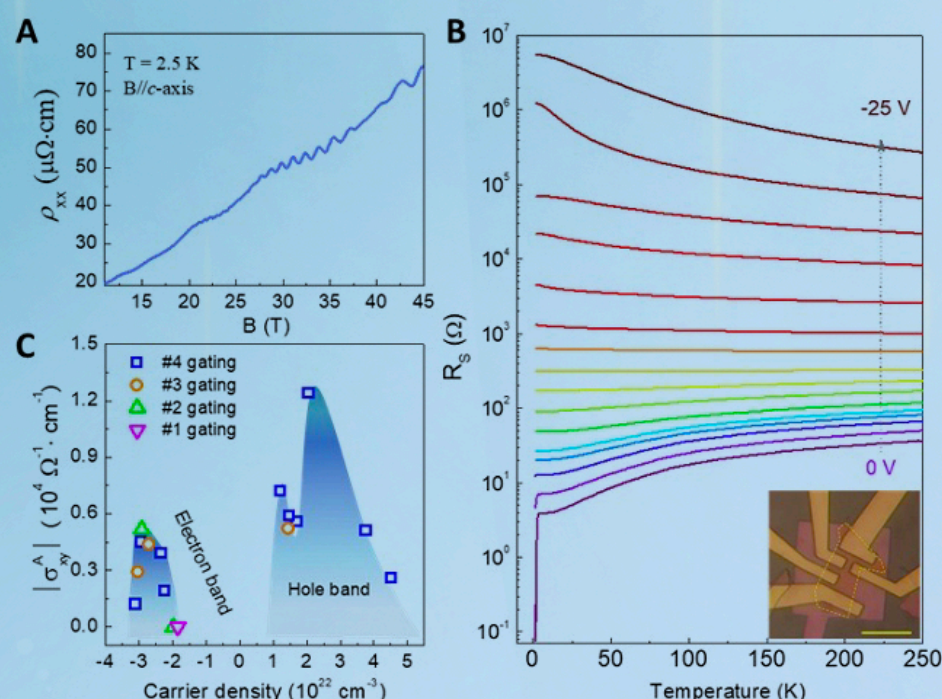


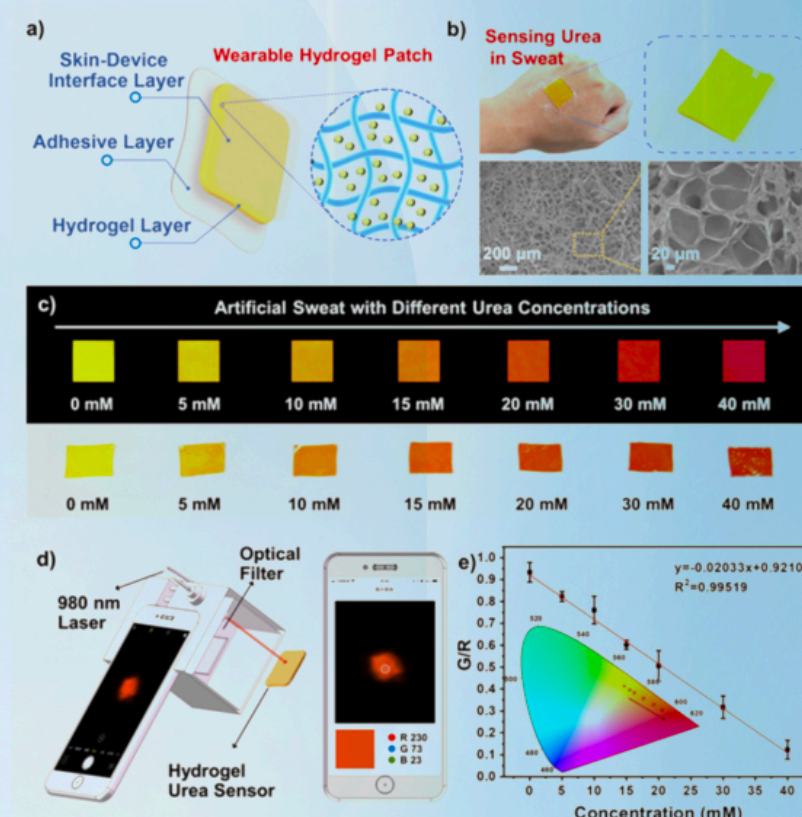
## MATERIAL

A HFIPS recently-published study has shown that electrically controlled proton intercalation has significant impacts on striking quantum phenomena in CsV3Sb5 nanodevices mainly through inducing disorders in thinner nanoflakes and carrier density modulation in thicker ones.

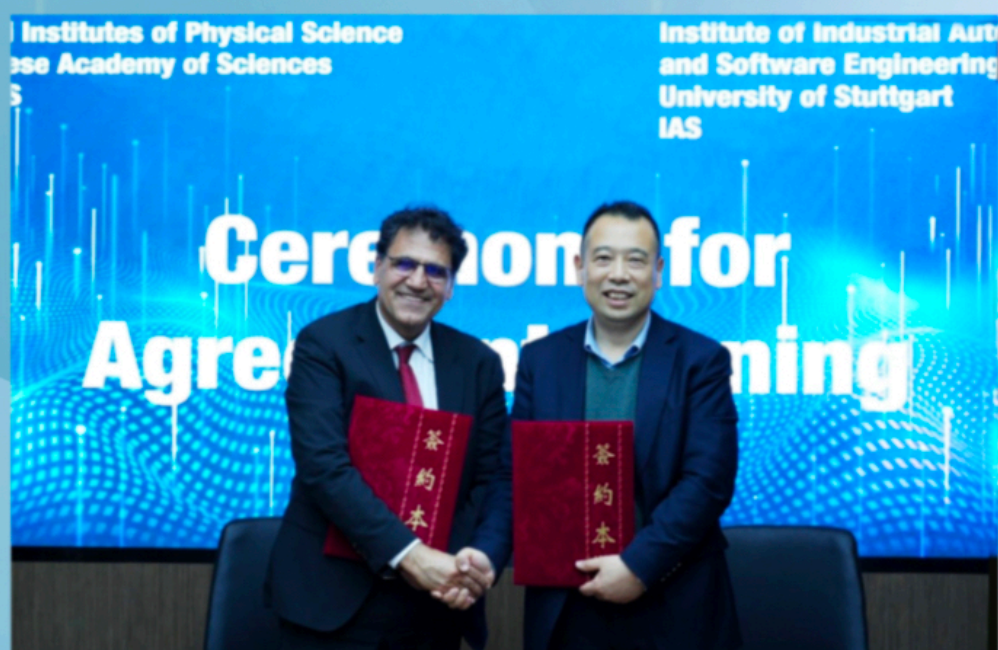


## TECHNOLOGY

A wearable sensing patch for rapid quantitative analysis of urea in body fluid was reported by HFIPS researchers who embedded an upconversion optical probe into a three-dimensional porous polyacrylamide hydrogel to develop the small device.



## COLLABORATION



A new collaboration on artificial intelligence was built of HFIPS with Institute of Industrial Automation and Software Engineering, University of Stuttgart. The agreement signed last week will lead the two new partners to collaborative academic exchanges and projects in the future to come.

