Printed Electronics Helix Launch Event

21 September



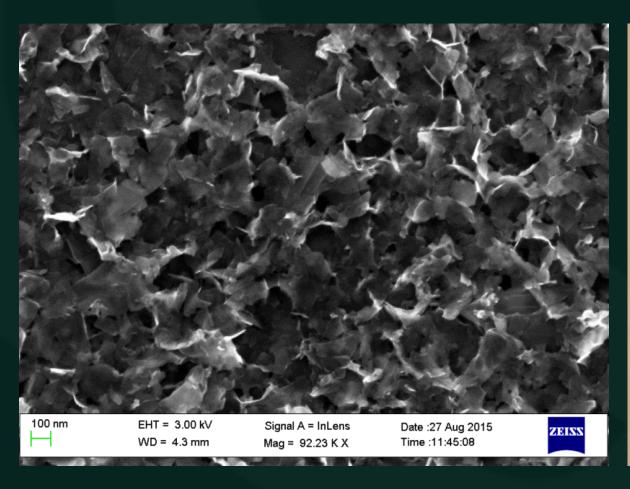




Printed Electronics at KTH

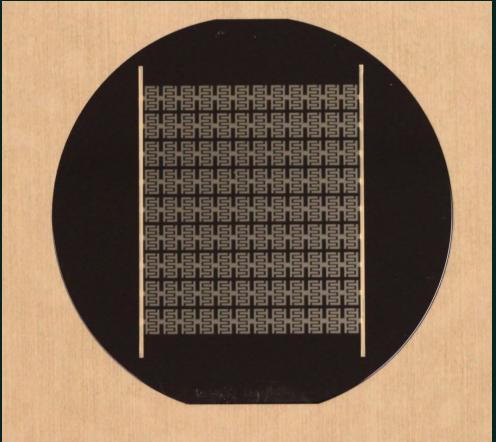


















Inks & Printers

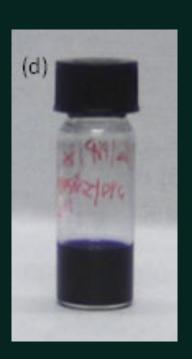


Carbon nanotube



Graphene





Polyaniline MoS₂ (PANI)



PSSH





PEDOT:PSS Inkjet direct Ink Writing



Dimatix Inkjet Printer



Felix Bioprinter





Multiple materials, Arbitrary substrates

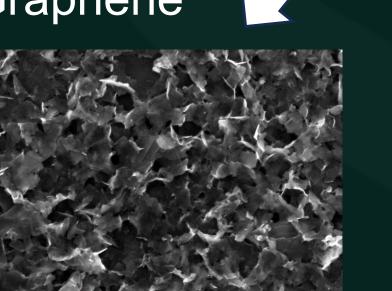


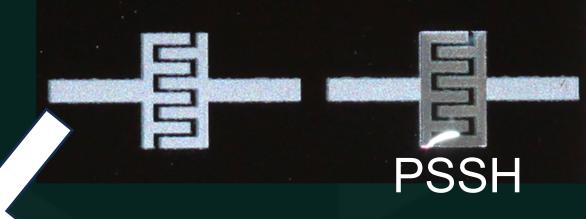




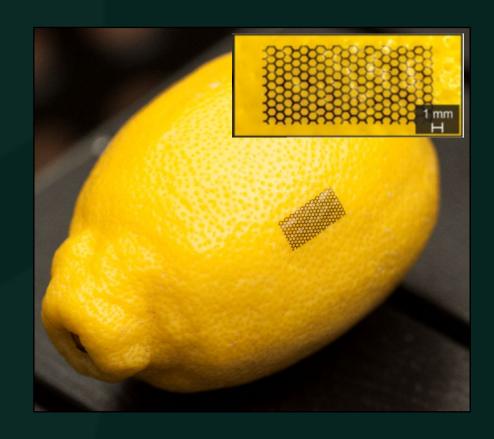




















PEDOT:PSS on Paper

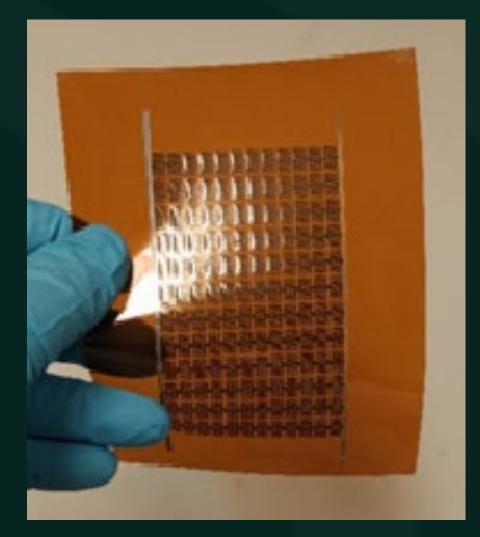


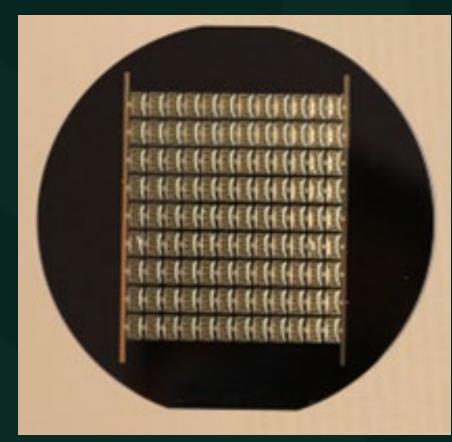




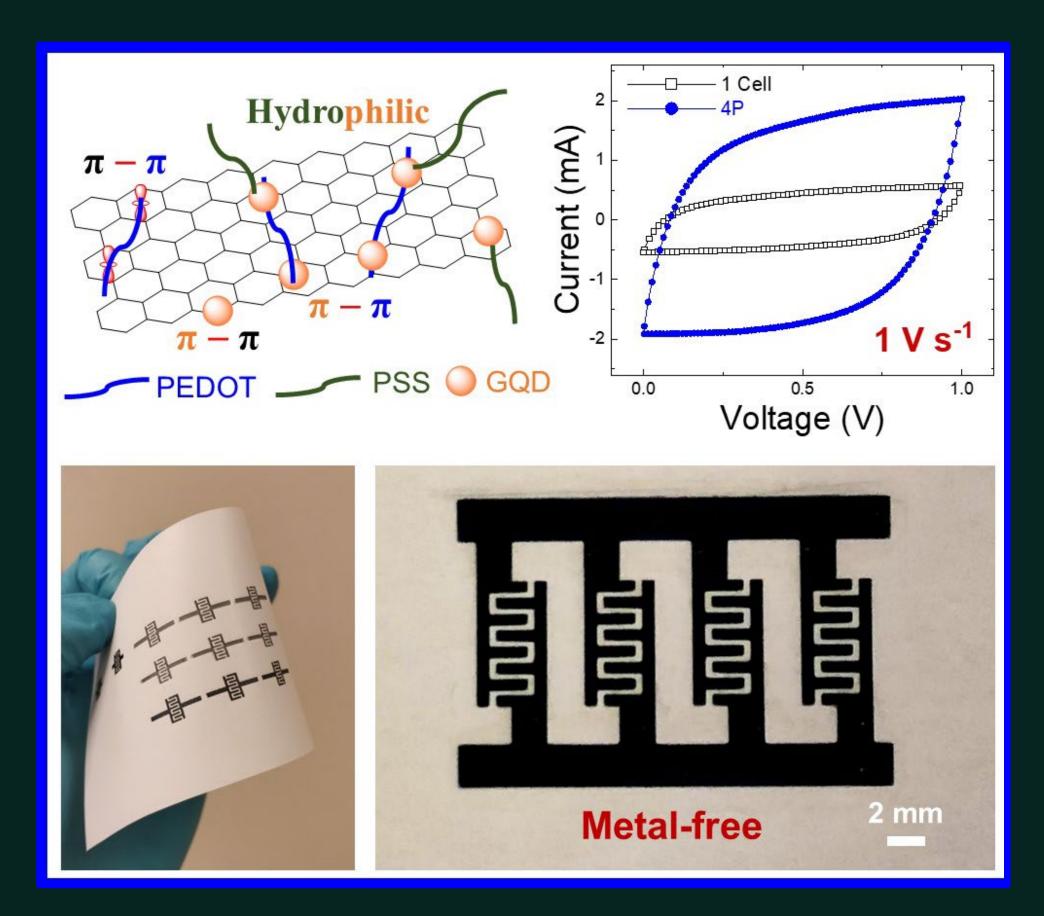
03

Metal-free Ultrafast Microsupercapacitors





ACS Nano 11, 8249 (2017).



Advanded Functional Materials 32, 2108773 (2022).

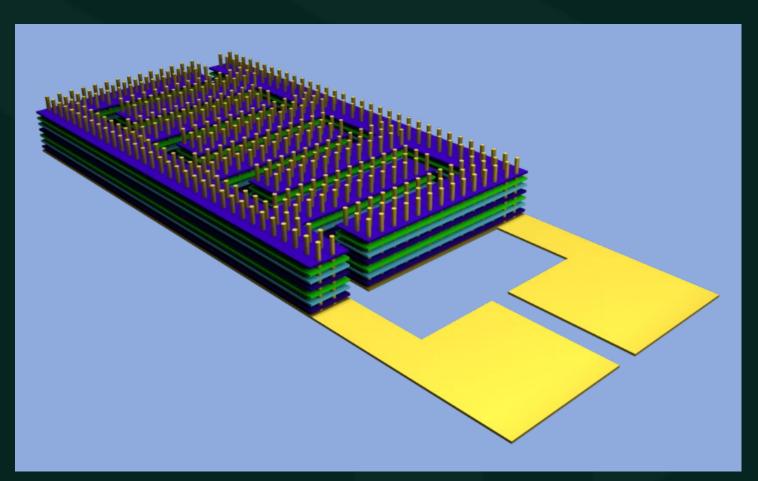


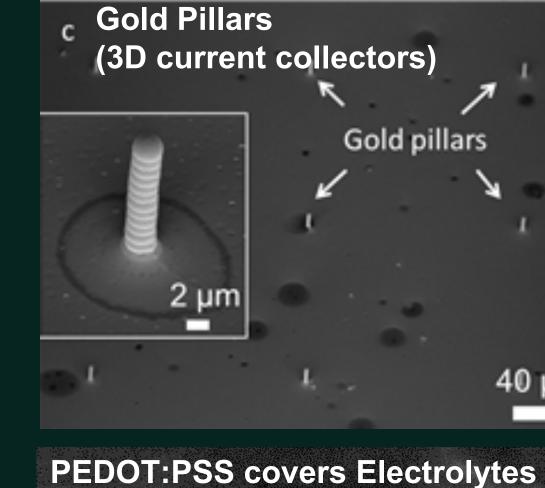


KTH VETENSKAP OCH KONST

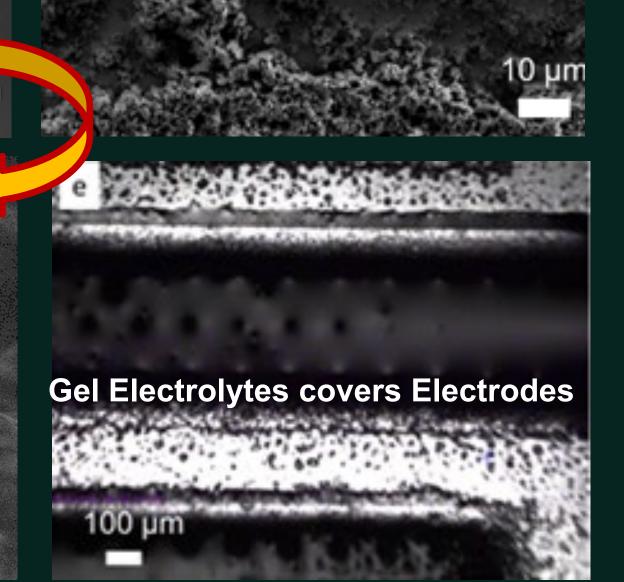
Fully-Printed 3D-Structured Microsupercapacitors

04



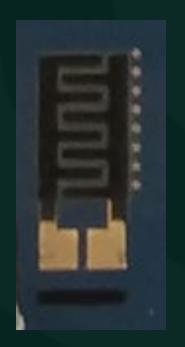


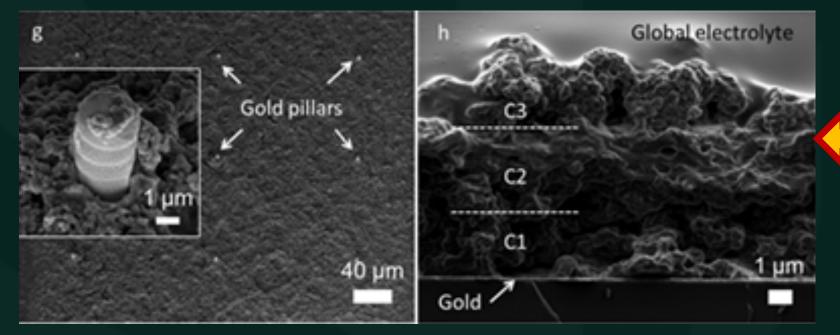
(local current collectors)



PANI/Graphene around Gold Pillars

(Porous electrodes)





Hybrid 3D structure realizes vertical scalability

Nano-Micro Letters 12, 40 (2020).



